

DECEIVE JUL 1 6 1996 DIV. OF OIL, GAS & MINING

July 12, 1996

Utah Division of Oil, Gas & Mining 1494 West North Temple, Suite 1210 Box 145801 Salt Lake City, UT 84114-5801

Attn: Brad Hill

Re:

The Anschutz Corporation

AL&L #4-30

Sec. 30, T5N - R8E Summit County, Utah

Dear Brad,

As you will recall, the subject location was moved approximately 100 feet in order to reduce cut on location and comply with state spacing requirements. As you requested, enclosed please find three copies each of the revised A.P.D., survey plat, wellpad diagram with cuts and fills, cross sections and access map.

A copy of the water permit will be submitted by Larry Williams under separate cover. If you should need anything further, please don't hesitate to contact me.

Sincerely,

PERMITCO INC.

Lisa L. Smith

Consultant for:

The Anschutz Corporation

Enc.

cc:

The Anschutz Corporation - Denver, CO

Mr. Larry Williams - SLC, UT

Permitco Incorporated

A Petroleum Permitting Company

(Other instructions on reverse side)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING				Confidential 19	
APPLICATION	ON FOR PERMIT TO D	RILL, DEEPEN, OF	PLUG BACK	6. If Indian, Allouse or Tribe	<u>III 1 6 1996</u>
a. Type of Work	DRILL X DEEP	EN	PLUG BACK	NA	
n. Type of Well Oil	Gas	Single	Multiple	7. Unit Agreement Name N/ADIV. OF	OIL. GAS & MII
Well	Well X Other	Zone X	Zone	8. Farm or Lease Name	
Name of Operator	303/298-1000	555 17th Street, Suit	e 2400	AL&L	
•	PLORATION CORP.	Denver, CO 80202		9. Well No.	
. Address of Operator	303/452-8888	13585 Jackson Drive		#4-30	
PERMITCO INC	C Agent	Denver, CO 80241	•	10. Field and Pool, or Widleat	
Location of Well (Repor	rt location clearly and in accordance with an	y State requirements.*)		Wildcat	
At surface				11. Sec., T., R., M., OR Blk.	
	533' FNL and 1802			and Survey or Area	
At proposed prod. zone	NE NW Sec. 30, T5	N - R8E		C - 20 TEN	DOE
				Sec. 30, T5N	- K&L 13. State
· -	tion from nearest town or post office*			12. County or Parrish	Utah
	Evanston, Wyoming	16. No. of acres in lease		Summit No. of acres assigned	Utan
5. Distance from proposed* location to nearest		10. No. of acres in lease		to this well	
property or lease line, ft.					
(Also to nearest drlg. line, i	if any) 533'	637.88		637.88	
8. Distance from proposed los	cation *	19. Propsed depth	20.1	Rotary or cable tools	
to nearest well, drilling, co	mpleted,				
or applied for, on this lease		13,160'		Rotary	
21. Elevations (Show whether	DF, RT, GR, etc.)			22. Approx. date word	
7314.4'	GR		U	pon approval of this	application
23.	P	ROPOSED CASING AND CEMEN	TING PROGRAM		
Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of C	
26"	20"	106#	1,500'	2950 sx Clas	s "A"
17-1/2"	13-3/8", 13-1/2"	68, 72 & 81.4#	5,900'	1770 sx Clas	s "G"
12-1/4"	9-5/8"	47#	12,000'	1860 sx Clas	s "E"

The Anschutz Corporation proposes to drill a well to a depth of 13,160' to test the Phosphoria/Weber formations. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per State of Utah requirements.

32#

See Drilling Program attached.

8-1/2"

All operations will be covered under Anschutz' Utah Statewide Bond No. 104253

CC: 3 - Division of Oil, Gas & Mining - SLC, Utah

3 - The Anschutz Corporation - Denver, CO

7"

CONFIDENTIAL - TIGHT HOLE

13,160'

400 sx Class "E"

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.

24.	Consultant for:	
Signed Sun & Muld	Title The Anschutz Corp.	Date 07/12/96
(This space for Federal or State office use)		
Permit No. 43-043-303	/6 Approval Date	2
Approved by The State	act Tiefettelun waner	Pu 7/29/96
Conditions of approval, if any:		

21.61.00

ORIGINAL

STONE

SCALE: 1 = 1000'

SECTION 30

T 5 N R 8 E

LOCATION MAP

SURVEYED UNDER MY SUPERVISION IN JULY 1996

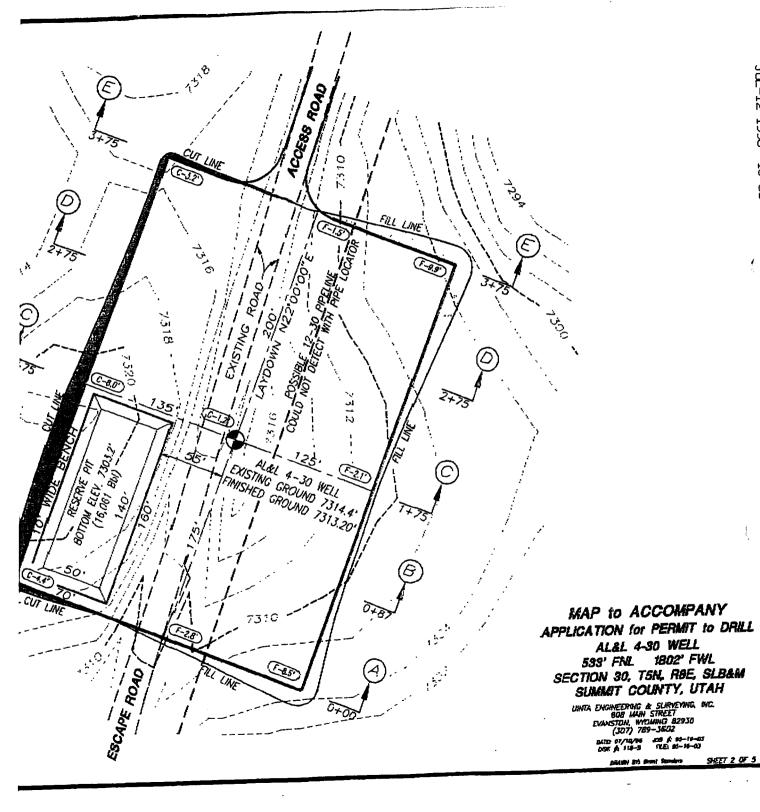


MAP to ACCOMPANY
APPLICATION for PERMIT to DRILL
ALAL 4-30 WELL
533' FNL 1802' FWL
SECTION 30, T5N, R9E, SLBAM
SUMMIT COUNTY, UTAH

UINTA ENGINEERING & SURVEYING, INC. 808 IAN STREET EVANSTON. WYCLING 82930 (307) 759-3602

DOX # 116-5 FLD \$1-19-03

GROSS ON BOOK SOUGH



JUL-12-1996

15:00

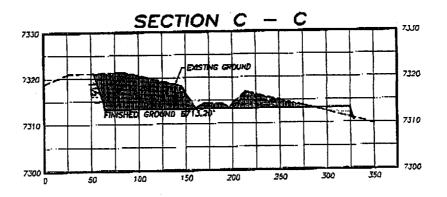
NTA ENGINEERING

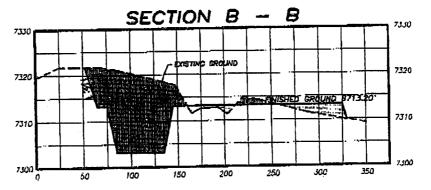
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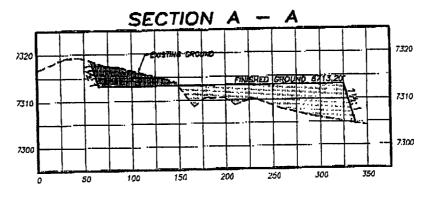
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9242 8256

P.06







MAP to ACCOMPANY APPLICATION for PERMIT to DRILL AL&L 4-30 WELL 1802' FWL 533' FNL SECTION 30, T5N, R8E, SLB&M SUMMIT COUNTY, UTAH

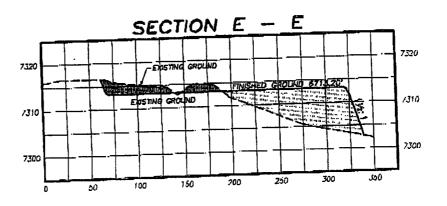
> UINTA ENGINEERING & SURVEYING, INC. 808 MAIN STREET EVANSTON, WYOMING 82930 (307) 789-3602

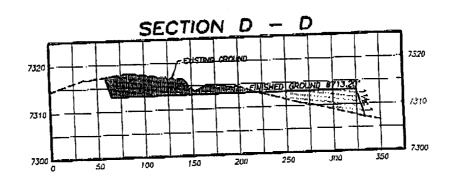
DATE: 07/10/96 JOB # \$5-19-03 DISK # 116-8 FILE: 95-10-03

SCALE: HORIZ: 1" 100"

ALL CUT SLOPES ARE 114 : 1 (UNLESS OTHERWISE NOTED)
ALL FILL SLOPES ARE 114 : 1

DRAUN BY: Brent Sonders SHEET 3 OF 5





MAP to ACCOMPANY APPLICATION for PERMIT to DRILL AL&L 4-30 WELL 1802' FWL 533' FNL SECTION 30, T5N, R8E, SLB&M SUMMIT COUNTY, UTAH

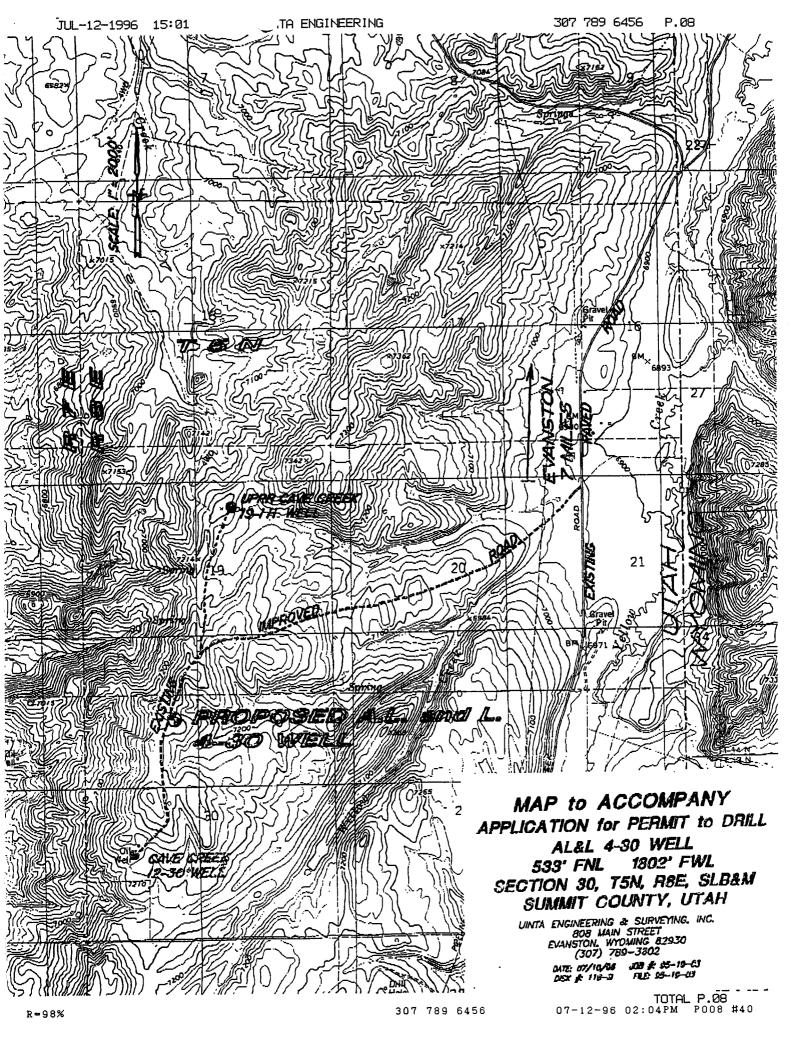
UINTA ENGINEERING & SURVEYING, INC. 808 MAIN STREET EVANSTON, WYOMING 82930 (307) 789-3602

DATE: 07/10/58 JOB \$: 05-19-03 DISK \$: 118-8 FILE: 95-19-03

SCALE:

ALL CUT SLOPES ARE 11/2 : 1 (UNLESS OTHERWISE NOTED)
ALL FILL SLOPES ARE 11/2 : 1

DRAWN BY: Brent Senders SHEET 4 OF 5





2400 ANACONDA TOWER . 555 SEVENTEENTH STREET . DENVER, COLORADO 80202 . 303-298-1000 . FAX 303-298-888

July 22, 1996

Brad Hill Utah Division of Oil, Gas & Mining 1494 W. North Temple, #1210 Salt Lake City, UT 84114-5801

RE: AL&L 4-30, Section 30, T5N, R8E, Summit County, UT Surface Use Agreement Certificate

It is hereby certified that conditions of surface use for the above-captioned proposed well have been determined and agreed to by the applicant, Anschutz Exploration Corporation, and the surface owner.

Sincerely,

Executive Vice President

INTERMTH SAFETY

H2S Contingency Plan

for

AL&L#4-30

Township 5N, Range 8E

Section 30

Summit County, Utah

Anschutz Exploration Corporation 555 17th St. Suite 2400 Denver, CO. 80202

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Introduction

It is the policy of Anschutz Exploration Corporation to provide a safe and healthful work environment for all of its employees as well as contractors that may work on Anschutz leases. Anschutz Exploration Corporation makes a continued effort to comply with laws and regulations relative to worker safety and health, and to manage all operations in a manner to reduce risk.

The following is a H2S contingency plan for the Anschutz A L & L # 14-33 well. It is designed for personnel working on this project to follow in case of an accidental release of hydrogen sulfide during drilling and or completion operations. For the plan to be effective, all personnel must review and be familiar with onsite duties as well as the safety equipment involved.

The purpose of this plan is to act as a guideline for personnel working on the wellsite in the event of a sudden release of hydrogen sulfide. All personnel working on the wellsite as well as service personnel that may travel to location on an unscheduled basis must be familiar with this program. The cooperation and participation of all personnel involved with the drilling operation is necessary for this plan to be effective.

This plan shall incorporate the existing Emergency Response Plan of the Union Pacific Resources Wahsatch Gathering system as it pertains to the Public Safety in the event of any atmospheric release of H2S. It is imperative that the WGS Control Room be contacted as soon as possible in the event of any release so this plan can be implemented.

Directions to location:

I. Duties & Responsibilities

In order to assure proper execution of the contingency plan, it is essential that one person be responsible for and in complete charge of implementing the procedures outlined in this plan. The order of responsibility will be as follows:

- 1. Anschutz Exploration Corporation drilling representative on location if unable to perform his/ her duties
- 2. Alternate Anschutz representative if unable to perform his/ her duties
- 3. Rig Toolpusher/ Supervisor if unable to perform his/ her duties
- 4. Safety consultant representative- if available

A. All Personnel

- 1. Always be alert for possible H2S alarms- both audible and visual.
- 2. Be familiar with location of Safe Briefing Areas (SBA) and protective breathing equipment.
- 3. Develop a "wind awareness". Be aware of prevailing wind direction as well as nearby uphill areas, should there be no wind.
 - 4. Familiarize yourself with nearest escape routes for safe evacuation
- 5. Should H2S alarm sound, DON'T PANIC Remain calm and follow instructions of person in charge.
 - 6. If the H2S alarms sound:
- a. Essential personnel shall don the appropriate respiratory protective equipment and follow company procedures. Essential personnel will continue to wear respiratory protective equipment until the area is deemed safe (H2S concentration less than 10 PPM)
- b. Non-essential personnel shall evacuate to the appropriate safe briefing area using escape breathing systems. Wait there for further instructions from Anschutz drilling representative.
 - c. Initiate rescue protocol if necessary-following training procedures.

B. Drilling Foreman

- 1. The Anschutz drilling foreman will confirm that all personnel on location are trained in H2S safety and aware of above list of duties when the H2S plan becomes effective at 300 feet above the Dinwoody Formation.
- 2. The Anschutz foreman will ensure that all safety and emergency procedures are observed by all personnel.
- 3. The Anschutz foreman will make an effort to keep the number of personnel on location to a minimum and to ensure that only essential personnel are on location during critical operations.
 - 4. Should any extreme danger condition exist, the Anschutz foreman will:
- a. Assess the situation and advise all personnel by appropriate means of communication.
- b. Be responsible for determing that the extreme danger condition is warranted and the red flag shall be posted at location entrance.
- c. Go to safe briefing area and give clear instructions relative to hazard on location, and actions for personnel to follow.
- d. Notify company and regulatory groups of current situation as outlined in company protocol. Notify WGS Control Room to activate WGS Emergency Response Plan.
- e. Proceed to rig floor and supervise operations with rig supervisor. Take action to control and reduce the H2S hazard.
- f. Ensure that essential personnel are properly protected with supplied air breathing equipment and that non-essential personnel are in a "poison gas free" area.
- g. Be responsible for authorizing evacuation of persons/ residents in area surrounding the drilling location.
 - h. Commence any ignition procedures if ignition criteria are met.

C. Rig Supervisor-Toolpusher

- 1. If the Anschutz drilling foreman is unable to perform his/ her duties, and the alternate drilling foreman is also unable or unavailable to perform his duties, the drilling rig Toolpusher will assume command of wellsite operations and all responsibilities listed above for drilling foreman.
- 2. Ensure that all rig personnel are properly trained to work in H2S environment and fully understand purpose of H2S alarms, and actions to take when alarms activate.

Ensure that all crew personnel understand the buddy system, safe briefing areas, and individual duties as well as emergency evacuation procedures.

- 3. Should an extreme danger operational condition arise, the rig Toolpusher shall assist the Anschutz foreman by:
 - a. Proceeding to the rig floor and assist in supervising rig operations.
- b. Ensure that only essential working personnel remain in hazardous areas.
- c. Ensure that all crew members that remain in hazardous area, wear respiratory protective equipment until notified that area is "clear" of any toxic gases.
- d. Assign rig crew member or other service representative to block entrance to location. No unauthorized personnel will be allowed entry to location.
- e. Help to determine hazardous "danger zones" on location using portable detection equipment and position electric fans to move gas in any high concentration areas.

D. Safety Consultant

- 1. During normal operations (no H2S present), the safety consultant will be responsible for the following:
 - a. Ensure that all wellsite safety equipment is in place and operational.
- b. Ensure that all wellsite personnel are familiar with location safety layout and operation of all safety equipment.
- c. Assist the Anschutz foreman in performing weekly H2S drills for location personnel.
- 2. When an operational condition is classified as extreme danger, the safety consultant will be responsible for the following:
 - a. Account for all wellsite personnel
 - b. Assess any injuries and direct first aid measure.
- c. Ensure that all safety and monitoring equipment is functioning properly and available.
 - d. Monitor the safety of wellsite personnel
 - e. Maintain a close communication with Anschutz foreman.
- f. Be prepared to assist Anschutz foreman with support for rig crew or other personnel using breathing equipment.
- g. Be prepared to assist Anschutz foreman with emergency procedures including possible well ignition.
- h. Be prepared to assist with evacuation of any area residents or other personnel working in the immediate area.

E. Union Pacific Resources Co- Wahsatch Gathering System Office

- 1. The Union Pacific Resources Co- Wahsatch Gathering System operations control room will be notified of any release of H2S by the Anschutz Operations Superintendent as well as other Anschutz Exploration Co supervisory personnel. The Union Pacific Resources Co- Wahsatch Gathering System Operations Control room will be responsible for notifying and maintaining contact with the Uinta County Fire Protection Agency as outlined in their Emergency Response Plan for the Public Protection in the event of an H2S release. This plan incorporates a Memorandum of Understanding between Summit County, Utah and Uinta County, Wyoming, that the primary responder to any event pertaining to the Wahsatch Gathering System will be the Uinta County Fire Protection Agency.
- 2. The Anschutz drilling foreman will maintain communications with the UPRC-WGS control room to coordinate with any other assistance that might be required.
 - 3. Travel to wellsite if appropriate

II. Drilling Rig Layout

A. Location

- 1. All respiratory protective equipment and H2S detection equipment will be rigged up 3 days or 500 feet prior to entering the first zone suspected to contain hydrogen sulfide. The rig crews and other service personnel will be trained at this time.
- 2. The drilling rig will be situated on location to allow for the prevailing winds to blow across the rig toward the circulation tanks or at right angles to the lines from the B.O.P.s to the circulation tanks.
- 3. The entrance to the location is designed so that it can be barricaded if a hydrogen sulfide emergency condition arises. An auxiliary exit route will be available so that in case of an emergency, a shift in wind direction would not prevent escape from the location.
- 4. A minimum of 2 safe briefing areas (SBA) shall be designated for assembly of personnel during emergency conditions. These will be located at least 150 ft. or as practical, from the wellbore and in such a location that at least one area will be upwind of the well at all times. Upon recognition of an emergency situation, all personnel will be trained to assemble at the designated briefing area for instructions.
- 5. Smoking areas will be established and "No Smoking" signs will be posted around the location.
- 6. Reliable 24 hour radio and telephone communications will be available at the drilling foremen's office.
 - 7. A mud-gas separator will be rigged up and manifolded to the choke system.
- 8. All equipment that might come in to contact with hydrogen sulfide drill pipe, drill stem test tools, blowout preventers, casing, choke system will meet Anschutz 's metallurgy requirements for H2S service.
- 9. The drilling rig will have a continuous electronic H2S detection system that automatically with activate visible and audible alarms if hydrogen sulfide is detected. The visible light will activate if 10 PPM H2S is present. The audible siren will activate if 15 PPM or higher concentration is present. There will be at least 4 H2S sensors in place on the drilling rig. They will be located to detect the presence of hydrogen sulfide in areas where it is most likely to come to surface. The sensor head locations

will be: 1) rig floor by driller's console, 2) substructure area near the bell nipple, 3) the shale shaker, 4) the mud mixing area. Additional sensors will be positioned at the discretion of the drilling foreman. At least 1 light and 1 siren will be placed on the rig to indicate the presence of hydrogen sulfide. The light and siren will be strategically placed to be visible to all personnel on the drill site. Additional alarm lights & sirens may be added to ensure that all personnel on the drill site are able to notice the alarms at any time.

- 10. The H2S detection equipment will be calibrated as recommended by the manufacturer. Calibration records will be maintained on location.
- 11. A least 4 windsocks will be placed around the drill site to ensure that wind direction can be readily determined by everyone on the drilling location. One windsock will be mounted on or near the rig floor to be readily visible to rig crews when tripping pipe.
- 12. All respiratory protective equipment will be NIOSH/ MSHA approved positive pressure type and maintained according to manufacturer's guidelines. All breathing air used for this equipment will be CGA type Grade D breathing air. Battery powered voice mikes will be available for communication when wearing masks.
- 13. Both 30 minute self-contained breathing apparatuses (SCBA) and workline units with escape cylinders will be available on location. There will be sufficient numbers of this supplied air breathing equipment on location to ensure that all personnel on location have 1 piece of equipment available to them. All respiratory protective equipment will use nose cups to prevent fogging in temperatures below 32 F. Spectacle kits will be available for personnel that require corrective lenses when working under mask.
- 14. Electric explosion- proof ventilating fans (bug blowers) will be available to provide air movement in enclosed areas where gas might accumulate.
- 15. H2S drills will be conducted at least weekly to ensure that all well site personnel are competent in emergency donning procedures. These drills will be recorded in the driller's log.

III. Safety Procedures

A. Training

All personnel who come onto the drilling location must be properly trained in hydrogen sulfide, nitrogen, and oxygen deficient atmospheres safety. The personnel shall carry documentation with them indicating that the training has occurred within the previous 12 months.

Training topics shall include at a minimum:

- 1. Hazards and characteristics of hydrogen sulfide, nitrogen, and oxygen deficient atmospheres and symptoms of exposure to these gases.
- 2. Proper use, care and limitations of respiratory protective equipment with hands on practice.
 - 3. Use of both fixed and portable detection toxic gas equipment.
- 4. Work practices to reduce opportunities for toxic gas exposure as well as confined space procedures.
 - 5. First aid for toxic gas exposure and resuscitation equipment.
 - 6. The buddy system
 - 7. Emergency evacuation procedures
 - 8. A review of the contingency plan for the well.

B. Operating Conditions

A three color- flag warning system will be used to notify personnel approaching the drill site as to operating conditions on the wellsite. This system is in compliance with BLM O.O. # 6 and follows industry standards.

Green Flag - Potential Danger

Yellow Flag - Moderate Danger

Red Flag- Extreme Danger - Do Not approach if red flag is flying.

C. Evacuation Plan

There are no permanent residents within a 1 mile radius of the drill site. Anschutz Exploration Corporation and Union Pacific Resources CO have operations within this area and travel the roads in the immediate area.

According to the Union Pacific Resources Co - Wahsatch Gathering System Emergency Response Plan, any evacuation will be conducted under the direction of Jon Lunsford the Uinta County Fire Protection Agency Chief.

All regulatory agencies will be notified as soon as possible.

D. Emergency Rescue Procedures

Well site personnel should not attempt emergency rescues unless they have been properly trained. A trained person who discovers another person overcome by hydrogen sulfide should not attempt to rescue without donning the proper breathing equipment. When making an emergency rescue always use the following procedures:

- 1. Don rescue breathing equipment before attempting to rescue someone.
- 2. Remove the victim from the contaminated area to an area free of toxic gas by traveling upwind or cross wind. Be certain that you are in a safe area before removing your breathing equipment.
- 3. If the victim is not breathing, initiate mouth- to mouth resuscitation immediately. Follow CPR guidelines and replace mouth to mouth with a bag mask resuscitator if available.
- 4. Treat the victim for shock, keeping the victim warm and calm. Never leave the victim alone.
- 5. Any personnel who experience hydrogen sulfide exposure must be taken to a hospital for examination and their supervisor notified of the incident.
 - 6. Their supervisor shall follow the company Emergency Preparedness plan.

IV. H2S Safety Equipment on Drilling Location

Item	Amount	Description
1.	1	safety trailer with a cascade system of 10-300 cu. ft bottles of compressed breathing air complete with high pressure regulators
2.	At least 1000 ft.	low pressure airline equipped with Hansen locking fittings. This airline will be rigged up with manifolds to supply breathing air to the rig floor, substructure, derrick, shale shaker area, and mud mixing areas. Three high pressure refill hoses will be attached to cascade systems for cylinder refill.
3.	Twelve (12)	Scott 30 minute self contained breathing apparatuses (SCBA).
4.	Twelve (12)	Scott airline units with emergency escape cylinders.
5.	One (1)	4- channel continuous electronic H2S monitor with audible and visual alarms. The set points for these alarms are 10 PPM for the low alarm and 15 PPM for the high alarm.
6.	Two (2)	Sensidyne portable hand operated pump type detection units with tubes for hydrogen sulfide and sulfur dioxide.
7.	One (1)	oxygen resuscitator with spare oxygen cylinder.
8.	One (1)	trauma first aid kit
9.	One (1)	stokes stretcher and one (1) KED.
10.	Four	wind socks
11.	At least one (1)	well condition sign with 3 flag system.
12.	Two (2)	Safe Briefing Area (SBA) signs
13.	One (1)	fire blanket

14.	One (1)	set air splints
15.	Two (2)	electric explosion proof fans
16.	One (1)	bullhorn and chalk board
17.	Three (3)	300 cu. ft. air bottles for the safe briefing area.
18.	Two (2)	30 # fire extinguishers
19.	Six (6)	battery powered voice mikes for communication when wearing air masks.
20.	One (1)	battery powered combustible gas meter

A drawing of the drilling location will be inserted in this page showing the actual placement of all safety equipment relative to the other equipment on the drill site. This drawing will be completed within 2 weeks of the drilling rig being in place and the location fully constructed to assure that all equipment, pits and roads are accurately located on the map.

V. Well Ignition Procedures

If it should become apparent that a uncontrolled release of hydrogen sulfide to the atmosphere may endanger the health and safety of the public or well site personnel, the Anschutz drilling foreman will make a decision to ignite the well. The following procedure should be followed before attempting to ignite the well.

A. Ignition equipment - The following equipment will be available an on-site for use by the ignition team.

- 1. 2 12 gauge flare guns with flare shells
- 2. 2 500 ft. Fire resistant retrieval ropes
- 3. 1 portable combustible gas meter
- 4. Self contained breathing apparatus (SCBA) for each member of the ignition team
 - 5. 1 backup vehicle with communication equipment

B. Ignition Procedures

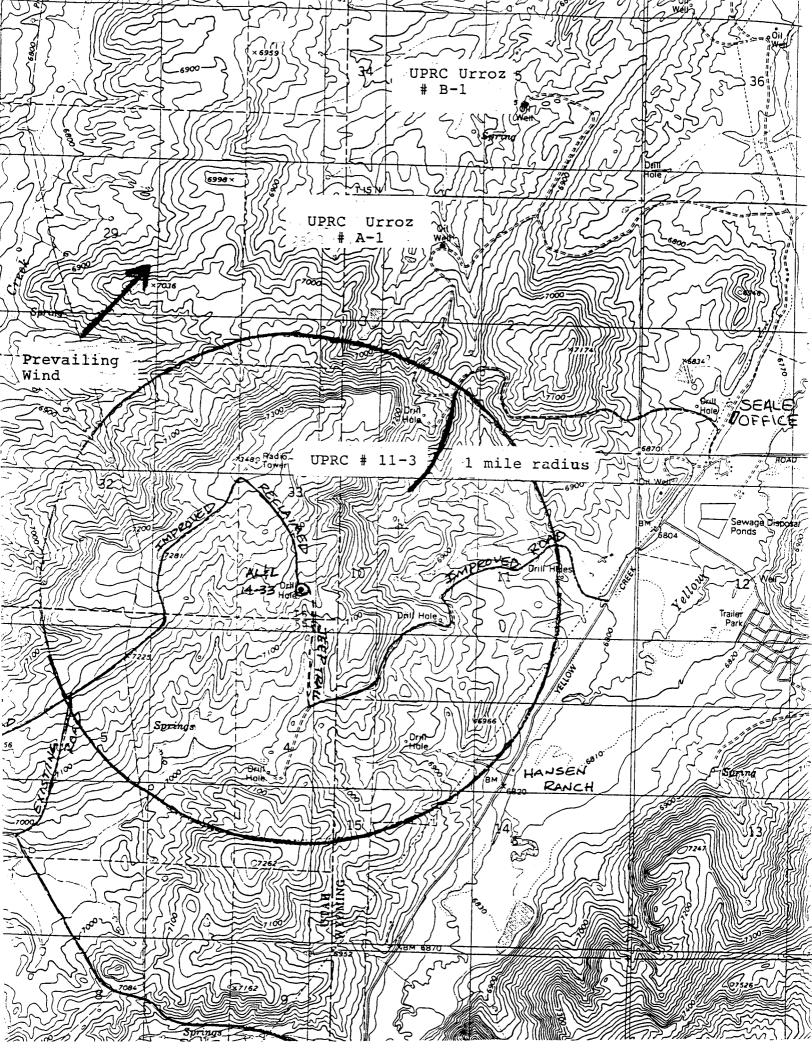
- 1. The Anschutz drilling foreman will ensure that well site personnel are evacuated to a safe area upwind of the well bore prior to any ignition action.
- 2. The Anschutz foreman and a designated partner "buddy" backed up by well site safety personnel will comprise the ignition team. All team members will be wearing 30 minute SCBAs.
- 3. The backup crew will be positioned near a radio equipped vehicle at a safe distance from the sour gas release. They will standby to rescue the actual team igniting the well.
- 4. The partner of the ignition team will carry a combustible gas/ hydrogen sulfide meter to continuously monitor the area in which they are working and define the perimeter of the gas cloud.
 - 5. The Anschutz foreman will carry the flare gun and shells.
- 6. The ignition team will determine the hazardous area and establish safe working perimeters. Once this is identified the team will proceed upwind of the leak and fire into the area with flare gun. If trouble is encountered in trying to light the leak, retry to ignite by firing the flare shells at 45 and 90 angles to the gas source, but DO NOT approach closer to the leak.

- 7. After ignition, monitor for sulfur dioxide and work with the support group to restrict access to the contaminated area.
- 8. Notify the Union Pacific Resources Co- Wahsatch Gathering System Control Room of any flaring of H2S gas on location.

VI. Residents - Public in Roe

There are no residents within a 1 mile radius of the well site. The Hansen Ranch buildings border the 1 mile radius and have been included in our notification list. Anschutz Exploration Corporation and Union Pacific Resource CO have personnel working in the area at any time of the day. The Urroz Ranch operated by Cathy Seale of Seale Services borders this lease and Seale Oilfield Services may have personnel in the adjacent area at any time of day. Castle Rock L & L may have ranching personnel in the area at any time of the day.

Anschutz Ranch East OfficeEvanston, WY.	(307) 783-2905 (307) 782-7111
Union Pacific Resources CO	
Hansen Ranch	(307) 789-3686
Urroz Ranch & Seale Oilfield Services Cathy or Hank Seale	(307) 789-4453
Castle Rock Land & Livestock	
Jeff Young - Ranch ManagerHor	•
Mo	bil (801) 541-0279
Castle Rock Land & Livestock Corporate Office David Allen	(801) 328-1600



VII. Emergency Phone Directory

Union Pacific Resources Co - Wasatch Gathering System (UPRC-WGS) is a partner in this well and will be the lead contact in providing emergency response services in conjunction with the **UPRC Emergency Response Plan**. The first emergency response call should be to the UPRC-WGS control room in Evanston, WY. At that point, UPRC will follow its emergency response plan protocol.

Union Pacific Resources CO- Wahsatch Gathering System	(307) 789-1573
Pete Straub- Superintendent	, ,
WGS Emergency Phone to Control Room	(307) 789-9735
	` ,
A. Anschutz Exploration Corporation	(303) 298-1000
555 17 Th. St. Suite 2400	` ,
Denver, CO. 80202	

<u>Title</u>	<u>Name</u>		Phone
General Manager	Hal Koerner	Home Pager PIN 1	(303) 299-1269 (303) 841-8151 (800) 759-8888 95-8787
Drilling Superintendent	Haw Gallagher	Home Mobil Pager	(303) 299-1532 see pager (303) 981-5609 (800) 492-0694
Drilling	Dave Dlouhy	Home	(303) 299-1228 (303) 797-0115

Engineering	Don Day	Home	(303) 299-1324 (303) 979-2396	
	Jim Oursland	Home Pager PIN	(713) 750-0210 (719) 688-1362 (800) 759-8888 198-3975	
Anschutz Ranch East Pipeline Foreman	Stan Dolinar	Home Mobil	(307) 783-2905 (307) 789-9048 (307)	
Field Supervision	Bob Griffin	Home Mobil	(801) 789-1564 (719) 881-1362	
	Ken Claire	Home Mobil	(801) 789-8838 (801) 790-5192	
	Jerry Blair	Home Mobil	(307) 455-4030 (719) 349-1862	
Public Relations	Bill Miller	Home Mobil	(303) 299-1330 (303) 797-8071 (303) 489-4851	

B. Emergency Services Phone List

Uinta County, WY. has a 911 system. Should the well site have direct access to Wyoming telephone system, **911** would contact all emergency services.

1. IHC Memorial Hospital - Evanston, WY	.(307) 789-3636
2. Ambulance Services - Uinta County, WY	(307) 783-1000
3. Sheriff Department- Uinta County, WY	(307) 783-1000
4. Highway Patrol - Wyoming	800) 442-9090
5. Summit County Sheriffs Office(dispatch)	(801) 336-4461
6. Fire Department - Uinta County, WY	(307) 783-1000
7. Utah Division Oil & Gas- Salt Lake City, UT	(801) 538-5340
8. Medical Helicopter - Air Med - Salt Lake City, UT	(800) 453-0120



DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt Governor Ted Stewart Executive Director James W. Carter Division Director 801-359-3940 (Fax) 801-538-5319 (TDD)

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340 801-359-3940 (Fax)

July 29, 1996

Anschutz Exploration Corporation c/o Permitco, Inc. 13585 Jackson Drive Denver, Colorado 80241

AL&L 4-30 Well, 533' FNL, 1802' FWL, NE NW, Sec. 30, T. 5 N., R. 8 E., Summit County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-043-30316.

Sincerely

Associate Director

lwp

Enclosures

Summit County Assessor

Bureau of Land Management, Utah State Office



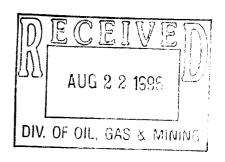
Operator:		Ansc	<u>hutz E</u>	xplora	tion C	orpor	<u>ation</u>	
Well Name & Number:		AL&L 4-30						
API Number: _		43-0	43-303	16				
Lease:		FEE		<u></u>				
Location:	NE NW	Sec.	30	Т.	5 N.	R.	8 E.	

Conditions of Approval

- 1. General
 - Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.
- 2. Notification Requirements
 Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews at (801)538-5334 or Mike Hebertson at (801)538-5333.

- 3. Reporting Requirements
 All required reports, forms and submittals shall be promptly
 filed with the Division, including but not limited to the
 Entity Action Form (Form 6), Report of Water Encountered
 During Drilling (Form 7), Weekly Progress Reports for
 drilling and completion operations, and Sundry Notices and
 Reports on Wells requesting approval of change of plans or
 other operational actions.
- 4. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis dated July 25, 1996 (copy attached).



H2S Contingency Plan

for

A L & L # 4-30

Township 5N, Range 8E

Section 30

Summit County, Utah

Anschutz Exploration Corporation 555 17th St. Suite 2400 Denver, CO. 80202

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Introduction

It is the policy of Anschutz Exploration Corporation to provide a safe and healthful work environment for all of its employees as well as contractors that may work on Anschutz leases. Anschutz Exploration Corporation makes a continued effort to comply with laws and regulations relative to worker safety and health, and to manage all operations in a manner to reduce risk.

The following is a H2S contingency plan for the Anschutz A L & L # 4-30 well. It is designed for personnel working on this project to follow in case of an accidental release of hydrogen sulfide during drilling and or completion operations. For the plan to be effective, all personnel must review and be familiar with onsite duties as well as the safety equipment involved.

The purpose of this plan is to act as a guideline for personnel working on the wellsite in the event of a sudden release of hydrogen sulfide. All personnel working on the wellsite as well as service personnel that may travel to location on an unscheduled basis must be familiar with this program. The cooperation and participation of all personnel involved with the drilling operation is necessary for this plan to be effective.

This plan shall incorporate the existing Emergency Response Plan of the Union Pacific Resources Wahsatch Gathering system as it pertains to the Public Safety in the event of any atmospheric release of H2S. It is imperative that the WGS Control Room be contacted as soon as possible in the event of any release so this plan can be implemented.

Directions to location:

I. Duties & Responsibilities

In order to assure proper execution of the contingency plan, it is essential that one person be responsible for and in complete charge of implementing the procedures outlined in this plan. The order of responsibility will be as follows:

- 1. Anschutz Exploration Corporation drilling representative on location if unable to perform his/ her duties
- 2. Alternate Anschutz representative if unable to perform his/ her duties
- 3. Rig Toolpusher/ Supervisor if unable to perform his/ her duties
- 4. Safety consultant representative- if available

A. All Personnel

- 1. Always be alert for possible H2S alarms- both audible and visual.
- 2. Be familiar with location of Safe Briefing Areas (SBA) and protective breathing equipment.
- 3. Develop a "wind awareness". Be aware of prevailing wind direction as well as nearby uphill areas, should there be no wind.
 - 4. Familiarize yourself with nearest escape routes for safe evacuation
- 5. Should H2S alarm sound, DON'T PANIC Remain calm and follow instructions of person in charge.
 - 6. If the H2S alarms sound:
- a. Essential personnel shall don the appropriate respiratory protective equipment and follow company procedures. Essential personnel will continue to wear respiratory protective equipment until the area is deemed safe (H2S concentration less than 10 PPM)
- b. Non-essential personnel shall evacuate to the appropriate safe briefing area using escape breathing systems. Wait there for further instructions from Anschutz drilling representative.
 - c. Initiate rescue protocol if necessary-following training procedures.

B. Drilling Foreman

- 1. The Anschutz drilling foreman will confirm that all personnel on location are trained in H2S safety and aware of above list of duties when the H2S plan becomes effective at 300 feet above the Dinwoody Formation.
- 2. The Anschutz foreman will ensure that all safety and emergency procedures are observed by all personnel.
- 3. The Anschutz foreman will make an effort to keep the number of personnel on location to a minimum and to ensure that only essential personnel are on location during critical operations.
 - 4. Should any extreme danger condition exist, the Anschutz foreman will:
- a. Assess the situation and advise all personnel by appropriate means of communication.
- b. Be responsible for determing that the extreme danger condition is warranted and the red flag shall be posted at location entrance.
- c. Go to safe briefing area and give clear instructions relative to hazard on location, and actions for personnel to follow.
- d. Notify company and regulatory groups of current situation as outlined in company protocol. Notify WGS Control Room to activate WGS Emergency Response Plan.
- e. Proceed to rig floor and supervise operations with rig supervisor. Take action to control and reduce the H2S hazard.
- f. Ensure that essential personnel are properly protected with supplied air breathing equipment and that non-essential personnel are in a "poison gas free" area.
- g. Be responsible for authorizing evacuation of persons/ residents in area surrounding the drilling location.
 - h. Commence any ignition procedures if ignition criteria are met.

C. Rig Supervisor- Toolpusher

- 1. If the Anschutz drilling foreman is unable to perform his/ her duties, and the alternate drilling foreman is also unable or unavailable to perform his duties, the drilling rig Toolpusher will assume command of wellsite operations and all responsibilities listed above for drilling foreman.
- 2. Ensure that all rig personnel are properly trained to work in H2S environment and fully understand purpose of H2S alarms, and actions to take when alarms activate.

Ensure that all crew personnel understand the buddy system, safe briefing areas, and individual duties as well as emergency evacuation procedures.

- 3. Should an extreme danger operational condition arise, the rig Toolpusher shall assist the Anschutz foreman by:
 - a. Proceeding to the rig floor and assist in supervising rig operations.
- b. Ensure that only essential working personnel remain in hazardous areas.
- c. Ensure that all crew members that remain in hazardous area, wear respiratory protective equipment until notified that area is "clear" of any toxic gases.
- d. Assign rig crew member or other service representative to block entrance to location. No unauthorized personnel will be allowed entry to location.
- e. Help to determine hazardous "danger zones" on location using portable detection equipment and position electric fans to move gas in any high concentration areas.

D. Safety Consultant

- 1. During normal operations (no H2S present), the safety consultant will be responsible for the following:
 - a. Ensure that all wellsite safety equipment is in place and operational.
- b. Ensure that all wellsite personnel are familiar with location safety layout and operation of all safety equipment.
- c. Assist the Anschutz foreman in performing weekly H2S drills for location personnel.
- 2. When an operational condition is classified as extreme danger, the safety consultant will be responsible for the following:
 - a. Account for all wellsite personnel
 - b. Assess any injuries and direct first aid measure.
- c. Ensure that all safety and monitoring equipment is functioning properly and available.
 - d. Monitor the safety of wellsite personnel
 - e. Maintain a close communication with Anschutz foreman.
- f. Be prepared to assist Anschutz foreman with support for rig crew or other personnel using breathing equipment.
- g. Be prepared to assist Anschutz foreman with emergency procedures including possible well ignition.
- h. Be prepared to assist with evacuation of any area residents or other personnel working in the immediate area.

E. Union Pacific Resources Co- Wahsatch Gathering System Office

- 1. The Union Pacific Resources Co- Wahsatch Gathering System operations control room will be notified of any release of H2S by the Anschutz Operations Superintendent as well as other Anschutz Exploration Co supervisory personnel. The Union Pacific Resources Co- Wahsatch Gathering System Operations Control room will be responsible for notifying and maintaining contact with the Uinta County Fire Protection Agency as outlined in their Emergency Response Plan for the Public Protection in the event of an H2S release. This plan incorporates a Memorandum of Understanding between Summit County, Utah and Uinta County, Wyoming, that the primary responder to any event pertaining to the Wahsatch Gathering System will be the Uinta County Fire Protection Agency.
- 2. The Anschutz drilling foreman will maintain communications with the UPRC-WGS control room to coordinate with any other assistance that might be required.
 - 3. Travel to wellsite if appropriate

II. Drilling Rig Layout

A. Location

- 1. All respiratory protective equipment and H2S detection equipment will be rigged up 3 days or 500 feet prior to entering the first zone suspected to contain hydrogen sulfide. The rig crews and other service personnel will be trained at this time.
- 2. The drilling rig will be situated on location to allow for the prevailing winds to blow across the rig toward the circulation tanks or at right angles to the lines from the B.O.P.s to the circulation tanks.
- 3. The entrance to the location is designed so that it can be barricaded if a hydrogen sulfide emergency condition arises. An auxiliary exit route will be available so that in case of an emergency, a shift in wind direction would not prevent escape from the location.
- 4. A minimum of 2 safe briefing areas (SBA) shall be designated for assembly of personnel during emergency conditions. These will be located at least 150 ft. or as practical, from the wellbore and in such a location that at least one area will be upwind of the well at all times. Upon recognition of an emergency situation, all personnel will be trained to assemble at the designated briefing area for instructions.
- 5. Smoking areas will be established and "No Smoking" signs will be posted around the location.
- 6. Reliable 24 hour radio and telephone communications will be available at the drilling foremen's office.
 - 7. A mud-gas separator will be rigged up and manifolded to the choke system.
- 8. All equipment that might come in to contact with hydrogen sulfide drill pipe, drill stem test tools, blowout preventers, casing, choke system will meet Anschutz 's metallurgy requirements for H2S service.
- 9. The drilling rig will have a continuous electronic H2S detection system that automatically with activate visible and audible alarms if hydrogen sulfide is detected. The visible light will activate if 10 PPM H2S is present. The audible siren will activate if 15 PPM or higher concentration is present. There will be at least 4 H2S sensors in place on the drilling rig. They will be located to detect the presence of hydrogen sulfide in areas where it is most likely to come to surface. The sensor head locations

will be: 1) rig floor by driller's console, 2) substructure area near the bell nipple, 3) the shale shaker, 4) the mud mixing area. Additional sensors will be positioned at the discretion of the drilling foreman. At least 1 light and 1 siren will be placed on the rig to indicate the presence of hydrogen sulfide. The light and siren will be strategically placed to be visible to all personnel on the drill site. Additional alarm lights & sirens may be added to ensure that all personnel on the drill site are able to notice the alarms at any time.

- 10. The H2S detection equipment will be calibrated as recommended by the manufacturer. Calibration records will be maintained on location.
- 11. A least 4 windsocks will be placed around the drill site to ensure that wind direction can be readily determined by everyone on the drilling location. One windsock will be mounted on or near the rig floor to be readily visible to rig crews when tripping pipe.
- 12. All respiratory protective equipment will be NIOSH/ MSHA approved positive pressure type and maintained according to manufacturer's guidelines. All breathing air used for this equipment will be CGA type Grade D breathing air. Battery powered voice mikes will be available for communication when wearing masks.
- 13. Both 30 minute self-contained breathing apparatuses (SCBA) and workline units with escape cylinders will be available on location. There will be sufficient numbers of this supplied air breathing equipment on location to ensure that all personnel on location have 1 piece of equipment available to them. All respiratory protective equipment will use nose cups to prevent fogging in temperatures below 32 F. Spectacle kits will be available for personnel that require corrective lenses when working under mask.
- 14. Electric explosion- proof ventilating fans (bug blowers) will be available to provide air movement in enclosed areas where gas might accumulate.
- 15. H2S drills will be conducted at least weekly to ensure that all well site personnel are competent in emergency donning procedures. These drills will be recorded in the driller's log.

III. Safety Procedures

A. Training

All personnel who come onto the drilling location must be properly trained in hydrogen sulfide, nitrogen, and oxygen deficient atmospheres safety. The personnel shall carry documentation with them indicating that the training has occurred within the previous 12 months.

Training topics shall include at a minimum:

- 1. Hazards and characteristics of hydrogen sulfide, nitrogen, and oxygen deficient atmospheres and symptoms of exposure to these gases.
- 2. Proper use, care and limitations of respiratory protective equipment with hands on practice.
 - 3. Use of both fixed and portable detection toxic gas equipment.
- 4. Work practices to reduce opportunities for toxic gas exposure as well as confined space procedures.
 - 5. First aid for toxic gas exposure and resuscitation equipment.
 - 6. The buddy system
 - 7. Emergency evacuation procedures
 - 8. A review of the contingency plan for the well.

B. Operating Conditions

A three color- flag warning system will be used to notify personnel approaching the drill site as to operating conditions on the wellsite. This system is in compliance with BLM O.O. # 6 and follows industry standards.

Green Flag - Potential Danger

Yellow Flag - Moderate Danger

Red Flag- Extreme Danger - Do Not approach if red flag is flying.

C. Evacuation Plan

There are no permanent residents within a 1 mile radius of the drill site.

Anschutz Exploration Corporation and Union Pacific Resources CO have operations within this area and travel the roads in the immediate area.

According to the Union Pacific Resources Co - Wahsatch Gathering System Emergency Response Plan, any evacuation will be conducted under the direction of Jon Lunsford the Uinta County Fire Protection Agency Chief.

All regulatory agencies will be notified as soon as possible.

D. Emergency Rescue Procedures

Well site personnel should not attempt emergency rescues unless they have been properly trained. A trained person who discovers another person overcome by hydrogen sulfide should not attempt to rescue without donning the proper breathing equipment. When making an emergency rescue always use the following procedures:

- 1. Don rescue breathing equipment before attempting to rescue someone.
- 2. Remove the victim from the contaminated area to an area free of toxic gas by traveling upwind or cross wind. Be certain that you are in a safe area before removing your breathing equipment.
- 3. If the victim is not breathing, initiate mouth- to mouth resuscitation immediately. Follow CPR guidelines and replace mouth to mouth with a bag mask resuscitator if available.
- 4. Treat the victim for shock, keeping the victim warm and calm. Never leave the victim alone.
- 5. Any personnel who experience hydrogen sulfide exposure must be taken to a hospital for examination and their supervisor notified of the incident.
 - 6. Their supervisor shall follow the company Emergency Preparedness plan.

IV. H2S Safety Equipment on Drilling Location

Item	Amount	Description
1.	1	safety trailer with a cascade system of 10-300 cu. ft bottles of compressed breathing air complete with high pressure regulators
2.	At least 1000 ft.	low pressure airline equipped with Hansen locking fittings. This airline will be rigged up with manifolds to supply breathing air to the rig floor, substructure, derrick, shale shaker area, and mud mixing areas. Three high pressure refill hoses will be attached to cascade systems for cylinder refill.
3.	Twelve (12)	Scott 30 minute self contained breathing apparatuses (SCBA).
4.	Twelve (12)	Scott airline units with emergency escape cylinders.
5.	One (1)	4- channel continuous electronic H2S monitor with audible and visual alarms. The set points for these alarms are 10 PPM for the low alarm and 15 PPM for the high alarm.
6.	Two (2)	Sensidyne portable hand operated pump type detection units with tubes for hydrogen sulfide and sulfur dioxide.
7.	One (1)	oxygen resuscitator with spare oxygen cylinder.
8.	One (1)	trauma first aid kit
9.	One (1)	stokes stretcher and one (1) KED.
10.	Four	wind socks
11.	At least one (1)	well condition sign with 3 flag system.
12.	Two (2)	Safe Briefing Area (SBA) signs
13.	One (1)	fire blanket

14.	One (1)	set air splints
15.	Two (2)	electric explosion proof fans
16.	One (1)	bullhorn and chalk board
17.	Three (3)	300 cu. ft. air bottles for the safe briefing area.
18.	Two (2)	30 # fire extinguishers
19.	Six (6)	battery powered voice mikes for communication when wearing air masks.
20.	One (1)	battery powered combustible gas meter

A drawing of the drilling location will be inserted in this page showing the actual placement of all safety equipment relative to the other equipment on the drill site. This drawing will be completed within 2 weeks of the drilling rig being in place and the location fully constructed to assure that all equipment, pits and roads are accurately located on the map.

V. Well Ignition Procedures

If it should become apparent that a uncontrolled release of hydrogen sulfide to the atmosphere may endanger the health and safety of the public or well site personnel, the Anschutz drilling foreman will make a decision to ignite the well. The following procedure should be followed before attempting to ignite the well.

A. Ignition equipment - The following equipment will be available an on-site for use by the ignition team.

- 1. 2 12 gauge flare guns with flare shells
- 2. 2 500 ft. Fire resistant retrieval ropes
- 3. 1 portable combustible gas meter
- 4. Self contained breathing apparatus (SCBA) for each member of the ignition team.
 - 5. 1 backup vehicle with communication equipment

B. Ignition Procedures

- 1. The Anschutz drilling foreman will ensure that well site personnel are evacuated to a safe area upwind of the well bore prior to any ignition action.
- 2. The Anschutz foreman and a designated partner "buddy" backed up by well site safety personnel will comprise the ignition team. All team members will be wearing 30 minute SCBAs.
- 3. The backup crew will be positioned near a radio equipped vehicle at a safe distance from the sour gas release. They will standby to rescue the actual team igniting the well.
- 4. The partner of the ignition team will carry a combustible gas/ hydrogen sulfide meter to continuously monitor the area in which they are working and define the perimeter of the gas cloud.
 - 5. The Anschutz foreman will carry the flare gun and shells.
- 6. The ignition team will determine the hazardous area and establish safe working perimeters. Once this is identified the team will proceed upwind of the leak and fire into the area with flare gun. If trouble is encountered in trying to light the leak, retry

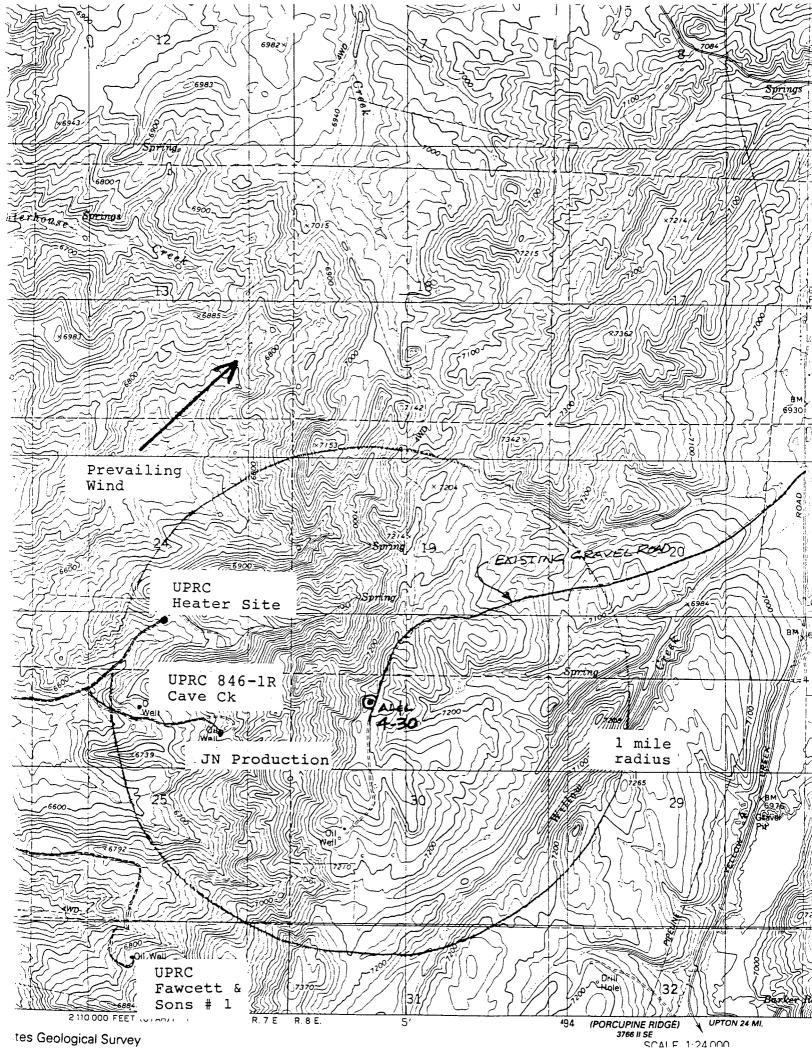
to ignite by firing the flare shells at 45 and 90 angles to the gas source, but DO NOT approach closer to the leak.

- 7. After ignition, monitor for sulfur dioxide and work with the support group to restrict access to the contaminated area.
- 8. Notify the Union Pacific Resources Co- Wahsatch Gathering System Control Room of any flaring of H2S gas on location.

VI. Residents - Public in Roe

There are no residents within a 1 mile radius of the well site. Union Pacific Resources and JN Exploration operate wells within a 1 mile radius to the West which is usually upwind. Both of these companies could have personnel working in the area at any time of the day. Castle Rock L & L may have ranching personnel in the area North of the well at any time of the day. The Fawcett family operates a ranch around the wellsite and may have personnel in the area at any time of day.

JN Exploration & Production Co Evanston, WY Dave Olree - Operator	(307) 783-2982 (Home) (307) 789-2426
JN Exploration & Production Corporate Office Billings, MT.	(406) 248-2222
Union Pacific Resources CO	(307) 789-1573
UPRC Emergency Phone to WGS Control Room	(307) 789-9735
Fawcett Ranch	(801) 773-2365
Castle Rock Land & Livestock	
Jeff Young - Ranch Manager	
	Mobil (801) 541-0279
Castle Rock Land & Livestock Corporate Office David Allen	(801) 328-1600



VII. Emergency Phone Directory

Union Pacific Resources Co - Wasatch Gathering System (UPRC-WGS) is a partner in this well and will be the lead contact in providing emergency response services in conjunction with the **UPRC Emergency Response Plan**. The first emergency response call should be to the **UPRC-WGS** control room in Evanston, WY. At that point, UPRC will follow its emergency response plan protocol.

Union Pacific Resources CO- Wahsatch Gathering System	(307) 789-1573
Pete Straub- Superintendent	
WGS Emergency Phone to Control Room	(307) 789-9735
A. Anschutz Exploration Corporation	(303) 298-1000

<u>Title</u>	Name		<u>Phone</u>
General Manager	Hal Koerner	Home Pager PIN 1	(303) 299-1269 (303) 841-8151 (800) 759-8888 95-8787
Drilling Superintendent	Haw Gallagher	Home Mobil Pager	(303) 299-1532 see pager (303) 981-5609 (800) 492-0694
Drilling	Dave Dlouhy	Home	(303) 299-1228 (303) 797-0115

Engineering	Don Day	Home	(303) 299-1324 (303) 979-2396
	Jim Oursland	Home Pager PIN	(713) 750-0210 (719) 688-1362 (800) 759-8888 198-3975
Anschutz Ranch East Pipeline Foreman	Stan Dolinar	Home Mobil	(307) 783-2905 (307) 789-9048 (307)
Field Supervision	Bob Griffin	Home Mobil	(801) 789-1564 (719) 881-1362
	Ken Claire	Home Mobil	(801) 789-8838 (801) 790-5192
	Jerry Blair	Home Mobil	(307) 455-4030 (719) 349-1862
Public Relations	Bill Miller	Home Mobil	(303) 299-1330 (303) 797-8071 (303) 489-4851

B. Emergency Services Phone List

Uinta County, WY. has a 911 system. Should the well site have direct access to Wyoming telephone system, **911** would contact all emergency services.

1. IHC Memorial Hospital - Evanston, WY	(307) 789-3636
2. Ambulance Services - Uinta County, WY	(307) 783-1000
3. Sheriff Department- Uinta County, WY	(307) 783-1000
4. Highway Patrol - Wyoming	800) 442-9090
5. Summit County Sheriffs Office(dispatch)	(801) 336-4461
6. Fire Department - Uinta County, WY	(307) 783-1000
7. Utah Division Oil & Gas- Salt Lake City, UT	(801) 538-5340
8. Medical Helicopter - Air Med - Salt Lake City, UT	(800) 453-0120

PROPERTIES OF GAS

If gas should be produced, it could be a mixture of Carbon Dioxide, Hydrogen Sulfide, and Methane.

TOXICITY OF VARIOUS GASES

Common Name	Chemical Formula	Specific Gravity of Air=1	t Threshold <u>Limit</u>	2 Hazardous <u>Limit</u>	3 Lethal Concern
Hydrogen Cyanide	HCN	0.94	10 ppm	150 ppm/hr.	300 ppm -
Hydrogen Sulfide	H ₂ S	1.18	10 ppm	250 ppm/hr.	600 ppm
Sulfur Dioxide	SO ₂	2.21	5 ppm	-	1000 ppm
Chlorine	CL	2.45	l ppm	4 ppm/hr.	1000 ppm
Carbon Monoxide	со	0.97	50 ppm	400 ppm/hr.	1000 ppm
Carbon Dioxide	CO ₂	1.52	5000 ppm	5%	10%
Methane	CH.	0.55	90000 ррш	Combustible Above 5% in Air	

¹ Threshold - Concentration at which it is believed that all workers may repeatedly be exposed, day after day, without adverse side effects.

² <u>Hazardous</u> - Concentration that may cause death.

³ <u>Lethal</u> - Concentration that will cause death with short-term exposure.

HYDROGEN SULFIDE

GENERAL PROPERTIES

Hydrogen Sulfide itself is a colorless and transparent gas and is flammable. It is heavier than air and, hence, may accumulate in low places.

Although the slightest presence of H_2S in the air is normally detectable by its characteristic "rotten egg" odor, it is dangerous to rely on the odor as a means of detecting excessive concentrations because the sense of smell is rapidly lost, allowing lethal concentrations to be accumulated without warning. The following table indicates the poisonous nature of Hydrogen Sulfide, which is more toxic than Carbon Monoxide.

Common names: sour gas, acid gas, rotten egg gas, sulphur gas, sulphurated gas, sweet gas.

PHYSICAL-CHEMICAL PROPERTIES

Che	emical Formula	H ₂ S
1.	Specific Gravity (air = 1.000)	1.193 (@ 77°F)
2.	Color	None
3.	Odor	Compare to rotten eggs
4.	Odor Threshold	0.13 part of 1 ppm
5.	Corrosivity	Reacts with metals, plastics, tissues and nerves.
6.	Solubility in Water	4.0 to 1 in H ₂ 0 @ 32°F 2.6 to 1 in H ₂ 0 @ 68°F
7.	Effects on Humans	Olfactory nerves, respiratory nerves, irritates sensitive membranes in eyes, nose, and throat.
8.	Vapor Pressure	19.6 atmospheres at 25°C
9.	Explosive Limits	4.3% to 46% by volume in air.

^{*}H₂S is a sweet tasting gas, but often the word "tasting" is left out.

10. Ignition Temperature	18°F (burns with a pale flame).
11. Molecular Weight	34.08
12. Conversion Factors	1 mg/1 of air = 717 ppm (at 25°C and 760 mm HG). 1 ppm = 0.00139 mg/1 of air.
13. pH	3 in water
14. Conversion Factors	1 mg/1 of air = 717 ppm (at 25°C and 760 mm HG). 1 ppm = 0.00139 mg/1 of air.

INDUSTRIAL OCCURRENCES

Hydrogen Sulfide exposures occur in certain processes in the petroleum industry, chemical plants, chemical laboratories, sulfur and gypsum mines, viscose rayon and rubber industries, tanneries, and in the manufacture of some chemicals, dyes, and pigments. It may be encountered in excavations in swampy or filled ground. It is produced when sulfur-containing organic matter decomposes, and it can therefore be found in sewage or organic-waste treatment plants. A common sewer gas, it may find its way into utility manholes, particularly dangerous when encountered in tanks, vessels, and other enclosed spaces.

TOXIC PROPERTIES

Hydrogen Sulfide is an extremely toxic and irritating gas. Free Hydrogen Sulfide in the blood reduces its oxygen-carrying capacity, thereby depressing the nervous system. Sufficiently high concentrations cause blocking of the phrenic nerve, resulting in immediate collapse and death due to respiratory failure and asphyxiation.

Because Hydrogen Sulfide is oxidized quite rapidly to sulfates in the body, no permanent after effects occur in cases of recovery from acute exposures unless oxygen deprivation of the nervous system is prolonged. However, in cases of acute exposures, there is always the possibility that pulmonary edema may develop. It is also reported that symptoms such as nervousness, dry nonproductive coughing, nausea, headache, and insomnia, lasting up to about three days, have occurred after acute exposures to Hydrogen Sulfide.

At low concentrations the predominant effect of Hydrogen Sulfide is on the eyes and respiratory tract. Eye irritation, conjunctivitis, pain, lacrimation, keratitis, and photophobia may persist for several days. Respiratory tract symptoms include coughing, painful breathing, and pain in the nose and throat.

There is no evidence that repeated exposures to Hydrogen Sulfide result in accumulative or systemic poisoning. Effects such as eye irritation, respiratory tract irritation, slow pulse rate, lassitude, digestive disturbances, and cold sweats may occur, but these symptoms disappear in a relatively short time after removal from the exposure. Repeated exposures to Hydrogen Sulfide do not appear to cause any increase or decrease in susceptibility to this gas.

The paralytic effect of Hydrogen Sulfide on the olfactory nerve is probably the most significant property of the gas. This paralysis may create a false sense of security. A worker can be overcome after the typical rotten-egg odor has disappeared. Rather than the characteristic Hydrogen Sulfide odor, some victims of sudden acute overexposure have reported a brief. sickeningly sweet odor just prior to unconsciousness.

Subjective olfactory responses to various concentrations of Hydrogen Sulfide have been summarized as follows:

0.02 ppm:

No odor

0.13 ppm:

Minimal perceptible odor

0.77 ppm:

Faint, but readily perceptible odor

4.60 ppm:

Easily detectable, moderate odor

27.0 ppm:

Strong, unpleasant odor, but not intolerable.

Physiological responses to various concentrations of Hydrogen Sulfide have been reported as follows:

10 ppm:

Beginning eye irritation

50-100 ppm:

Slight conjunctivitis and respiratory tract irritation after 1 hour exposure.

100 ppm:

Coughing, eye irritation, loss of sense of smell after 2-15 minutes. Altered respiration, pain in the eyes, and drowsiness after 15-30 minutes, followed by throat irritation after 1 hour. Several hours' exposure results in gradual increase in severity of these symptoms and death may occur within the next 48 hours.

200-300 ppm:

Marked conjunctivitis and respiratory tract irritation after 1 hour of exposure.

500-700 ppm:

Loss of consciousness and possibly death in 30 minutes to 1 hour.

700-1000 ppm: Rapid unconsciousness, cessation of respiration, and death.

1000-2000 ppm: Unconsciousness at once, with early cessation of respiration and death in a few

minutes. Death may occur even if individual is removed to fresh air at once.

ACCEPTABLE CONCENTRATIONS

Acceptable Eight-Hour Time-Weighted Average.

To avoid discomfort, the time-weighted average concentration of Hydrogen Sulfide shall not exceed 10 ppm.

Acceptable Ceiling Concentrations.

The acceptable concentration for protection of health for an eight-hour, five-day week shall be 20 ppm. Fluctuations are to occur below this concentration.

Acceptable Maximum For Peaks Above Acceptable Base Line For Continuous Exposure.

A single-peak concentration not exceeding 50 ppm for a maximum of 10 minutes is allowable provided that the daily time-weighted average is not exceeded.

H,S EOUTVALENTS

Parts per Million	Percents	Grains per 100 cu. ft.
1	.0001	.055
10	.001	.55
18	.0018	1.0
100	.01	5.5
1000	.1	55.5
10000	1.0	555.5

Grains per 100 cu. ft. = % by volume Mole 636.4 1% by volume = 10,000 ppm

SULFUR DIOXIDE

Sulfur Dioxide (SO₂) is a colorless, transparent gas and is non-flammable.

Sulfur Dioxide is produced during the burning of H_2S . Although SO_2 is heavier than air, it will be picked up by a breeze and carried downwind at elevated temperatures. While Sulfur Dioxide is extremely irritating to the eyes and mucous membranes of the upper respiratory tract, it has exceptionally good warning powers in this respect.

CONCENTRATIONS		EFFECTS
%SO ₂	ppm	
.0005	5	Pungent odor-normally a person can detect SO ₂ in this range.
.001	10	Safe for eight (8) hour exposure.
.0012	12	Throat irritation, coughing, constriction of the chest, tearing and smarting of the eyes.
.015	150	So irritating that it can only be endured for a few minutes.
.05	500	Causes a sense of suffocation, even with the first breath.

PHYSICAL PROPERTIES AND CHARACTERISTICS

Che	mical Formula	SO ₂				
1.	Specific Gravity	2.212				
2.	Color	None				
3.	Flammable	No				
4.	Odor	Characteristic, pungent, gives ample warning of its presence.				

٥.	Corrosivity	Drynot corrosive to ordinary metals. Wetcorrosive to most common metals.
6.	Allowable Concentrations	5 ppm (ACGIH) 5 ppm (OSHA)
7.	Effects on Humans	Irritates eyes, throat and upper respiratory system.

TOXIC PROPERTIES

Sulfur Dioxide is an irritating gas in its vapor form and the odor is so intensely irritating that concentrations of 3 to 5 parts per million in the air are readily detectable by the normal person. In higher concentrations, the severely irritating effect of the gas makes it unlikely that any person would be able to remain in a Sulfur Dioxide contaminated atmosphere unless he were unconscious or trapped.

Sulfur Dioxide gas is intensely irritating to the eyes, throat, and upper respiratory system. Inhalation of this gas in concentrations of 8 to 12 parts per million in air causes throat irritation, coughing, constriction of the chest, tearing and smarting of the eyes. 150 parts per million is so extremely irritating that it can be endured only for a few minutes. 500 parts per million is so acutely irritating to the upper respiratory tract that it causes a sense of suffocation, even with the first breath.

Out of numerous reported exposures to Sulfur Dioxide, there are few references that would indicate pneumonia as an after effect.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOOD PLAINS AND/OR WETLANDS: None FLORA/FAUNA: Abundant sage and grasses, sparse mountain mahogany/Elk, deer, rodents, birds, insects SOIL TYPE AND CHARACTERISTICS: Sandy loam with abundant gravel. SURFACE FORMATION & CHARACTERISTICS: Quaternary alluvium on Wasatch Formation. EROSION/SEDIMENTATION/STABILITY: No active erosion or sedimentation at present. This should be a stable location. PALEONTOLOGICAL POTENTIAL: None observed RESERVE PIT CHARACTERISTICS: A rectangular reserve pit (140'X 50'X 14') will be included on the well pad. LINER REQUIREMENTS (Site Ranking Form attached): The pit is to be lined with a synthetic liner with a minimum thickness of 14 mils. SURFACE RESTORATION/RECLAMATION PLAN To be reclaimed as per land owner instructions. SURFACE AGREEMENT: Anschutz representatives stated that there is a surface agreement in place and that DOGM will be supplied with an affidavit which so states. CULTURAL RESOURCES/ARCHAEOLOGY: Fee land, none needed. OTHER OBSERVATIONS/COMMENTS This well was originally staked 100' west of the current proposed location. At the time of the onsite it was determined that the well should be moved in order to move it to a legal location as well as to move the reserve pit farther from the steep hillside west of the location. The photos which were taken at the time show a flag at the original site. center of the new location is approximately in the center of the road where the vehicles are parked as seen in the photograph. A revised APD and plats will be sent to DOGM to reflect the new location information.

ATTACHMENTS: Photographs: GIS map:

> Brad Hill DOGM REPRESENTATIVE

7/8/96 DATE/TIME

STATE OF UTAH DIVISION OF OIL, GAS AND MINING DRILLING INSPECTION FORM

OPERATOR: Anschutz Exploration COMPANY REP: Jerry Blair
WELL NAME: AL & L 4-30 API NO: 43-043-30316
QTR/QTR: NE/NW SECTION: 30 TWP: 5N RANGE: 8E
CONTRACTOR: PARKER RIG NUMBER: 235
INSPECTOR: <u>J.Thompson</u> TIME: <u>10:30 am</u> DATE: <u>12/17/96</u>
TYPE OF WELL: OIL: GAS: X WIW:
SPUD DATE: DRY: ROTARY: 10/2/96 PROJECTED T.D.: 12 090'
OPERATIONS AT TIME OF VISIT: Drilling ahead @ 11,700'. Top of
Phosphoric formation is approxiamtely 11,800'. Will circulate and
trip for bit before going into the formation.
WELL SIGN: Y MUD WEIGHT: 8.8 LBS/GAL BOPE: 5000#
BLOOIE LINE: Y FLARE PIT: Y H2S POTENTIAL: yes
ENVIRONMENTAL:
RESERVE PIT: YES FENCED: NO LINED: YES PLASTIC: YES
RUBBER: BENTONITE: SANITATION:
BOPE TEST RECORDED IN THE RIG DAILY TOUR BOOK: Yes
REMARKS:
H2S monitors are in place. All the contractors and rig crews are H2S
trained. BOPE'S were last tested on 12/13/96. Last survey was @11,600'
6 3/4 degrees. Drilling @ 260' an hour. Should TD 19-20th. No water
has been encountered drilling. 9/23/94

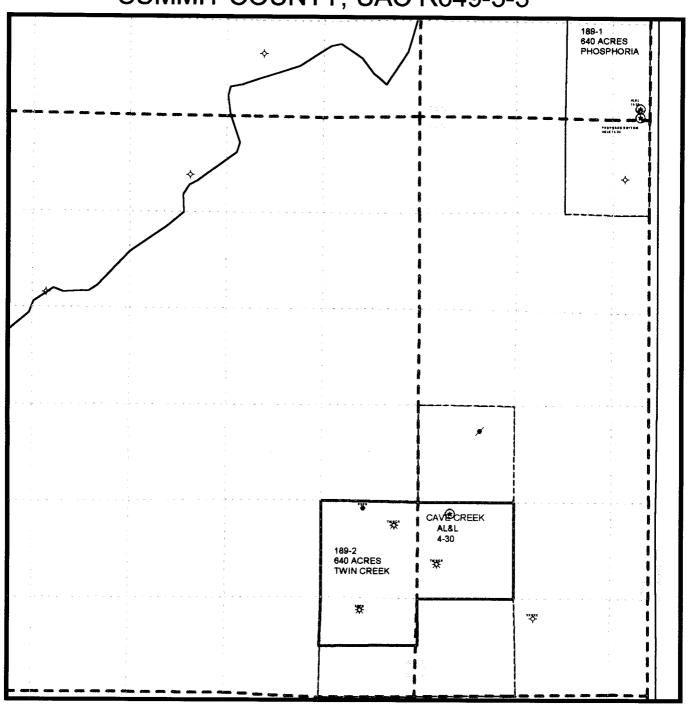
Evaluation Ranking Criteria and Ranking Score For Reserve and Onsite Pit Liner Requirements

Site-Specific Factors	Ranking	Site Ranking
Distance to Groundwater (feet) >200 100 to 200 75 to 100 25 to 75 <25 or recharge area	0 5 10 15 20	?
Distance to Surf. Water (feet) >1000 300 to 1000 200 to 300 100 to 200 < 100	0 2 10 15 20	0
Distance to Nearest Municipal Well (>5280 1320 to 5280 500 to 1320 <500	feet) 0 5 10 15	0
Distance to Other Wells (feet) >1320 300 to 1320 <300	0 10 20	0
Native Soil Type Low permeability Mod. permeability High permeability	0 10 20	15
Fluid Type Air/mist Fresh Water TDS >5000 and <10000 TDS >10000 or Oil Base Mud Fluid containing high levels of hazardous constituent	0 5 15 20	20
Drill Cuttings Normal Rock Salt or detrimental	0 10	5
Annual Precipitation (inches) <10 10 to 20 >20	0 5 10	5
Affected Populations <10 10 to 30 30 to 50 >50	0 6 8 10	0
Presence of Nearby Utility Conduits Not Present Unknown Present	0 10 15	0
Final Score		45

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 07/16/96	API NO. ASSIGNED: 43-043-30316
WELL NAME: AL&L 4-30 OPERATOR: ANSCHUTZ EXPLORATION	(N7940)
PROPOSED LOCATION: NENW 30 - T05N - R08E SURFACE: 0533-FNL-1802-FWL BOTTOM: 0533-FNL-1802-FWL SUMMIT COUNTY CAVE CREEK FIELD (515) LEASE TYPE: FEE LEASE NUMBER: PATENTED LAND PROPOSED PRODUCING FORMATION: WEBER	INSPECT LOCATION BY: 07/18/96 TECH REVIEW Initials Date Engineering Geology Surface
RECEIVED AND/OR REVIEWED: Plat Bond: Federal[] State[M Fee[] (Number 104253) Potash (Y/N) N Oil shale (Y/N) N Water permit (Number Permitted WATERWELL N RDCC Review (Y/N) will be Oritied (Date:)	LOCATION AND SITING: R649-2-3. Unit: R649-3-2. General. R649-3-3. Exception. Drilling Unit. Board Cause no: Date:
COMMENTS:	
STIPULATIONS:	

ANSCHUTZ EXPLORATION CORP. EXPLORATORY DRILLING SEC. 33, T5N, R8E SUMMIT COUNTY, UAC R649-3-3



PREPARED: DATE: 1-JUL-96

DIVISION OF OIL, GAS AND MINING APPLICATION FOR PERMIT TO DRILL **STATEMENT OF BASIS**

Operator Name: Anschutz Corporation
Name & Number: AL&L #4-30
API Number: 43-043-303/6
Location: 1/4,1/4 NE NW Sec. 30 T. 5N R. 8E
Geology/Ground Water:
The surface geology at the proposed location consists of alluvium over Wasatch Formation. High quality ground water is present in the cretaceous age rocks through the Frontier Formation. A 20 inch casing is going to be set at 1500 feet and cemented to surface. This will protect all water encountered to this depth. It is proposed to set a 13 3/8" casing at 5900 feet and to circulate cement back to 3300 feet. Considering that the Frontier Formation will be encountered at approximately 2500 feet, it is recommended that cement should be circulated to a minimum of 2500 feet or a DV tool be used to stage the cement. The additional proposed casing and cement program should adequately protect and isolate additional zones of water encountered.
Reviewer: D. Jarvis Date: 7/25/96
Surface:
An onsite evaluation was done on this proposed location on July 8, 1996. No significant surface problems were noted. The waste management program was discussed and it was agreed that all human waste and refuse would be contained on location while drilling and would be hauled from the location and disposed of in a proper manner. The drill cuttings will be dried and buried in the reserve pit. Water for drilling will be obtained through a reappropriation of the livestock water at the Anschutz Ranch. Evidence of a surface agreement will be sent to DOGM. The reserve pit is to be lined with a synthetic liner and the location is to be bermed to prevent runoff from the pad.
nom the pag.
Reviewer: Brad Hill
Date: 7/22/96

Conditions of Approval/Application for Permit to Drill:

- Reserve pit is to be lined with a synthetic liner with a minimum thickness of 14 mils.
 The entire location is to be bermed to prevent any fluids from running off of the pad.

ON-SITE PREDRILL EVALUATION

Division of Oil, Gas and Mining

OPERATOR: Anschutz Corporation WELL NAME & NUMBER: AL&L #4-30 API NUMBER: 43-043-30316 LEASE: FEE FIELD/UNIT: Cave Creek LOCATION: 1/4,1/4 NE NW Sec: 30 TWP: 5N RNG: 8E 533 FNL 1802 FWL LEGAL WELL SITING: 460F SEC. LINE; 460F 1/4,1/4 LINE; 920 F ANOTHER WELL. SURFACE OWNER: Anschutz Land & Livestock PARTICIPANTS Brad Hill & Dan Jarvis - DOGM; Miles Williams, Bill Miller, Dan Gallager & Larry Williams - Anschutz; Stan Taggart - Uinta Engineering (surveyor); Lisa Smith-Permitco Inc. REGIONAL/LOCAL SETTING & TOPOGRAPHY The proposed location lies within the Wasatch Hinterland physiographic province of Utah. This is an area of large rounded hills which are separated by moderately sized drainage and is located between the Wasatch Mountains to the west and the Bear River Drainage to the east. The pad for the proposed well will be built on the crest of a hill and will straddle an existing road. The hill slopes away gently to the north, south, and east. The hill flattens out on the west side of the location and then drops off steeply approximately 100 yards past the edge of the pit. SURFACE USE PLAN CURRENT SURFACE USE: Domestic and wildlife grazing. PROPOSED SURFACE DISTURBANCE: A rectangle shaped pad (375'X 260') will be constructed which will include a 140'X 50' reserve pit. No access road will be constructed. The existing road will be routed across the location when the well is completed. LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: There are three wells in the Cave Creek Field within a 1 mile radius (see attached map). No water wells are known to be within a 1 mile radius. LOCATION OF PRODUCTION FACILITIES AND PIPELINES: If productive the well will be tied to the Wasatch system on the Cave Creek lateral. SOURCE OF CONSTRUCTION MATERIAL: Onsite materials will be used for construction. ANCILLARY FACILITIES: None WASTE MANAGEMENT PLAN:

Portable chemical toilets will be used onsite and hauled away after the well is drilled. All refuse will be contained on location and

contained in the reserve pit and dried and buried upon completion.

hauled off when drilling is completed. Drill cutting will be

STATE OF UTAH, DIV OF OIL, GAS & MINERALS

Well Name: A L & L 4-30 Operator: ANSCHUTZ EXPLORATION C

Project ID: 43-043-30316 Location: SEC. 30 - T05N - R08E

Design Factors: <u>Design Parameters:</u> Collapse : 1.125 psi/ft Mud weight (10.50 ppg) : 0.545 : 1.00 Shut in surface pressure : 4503 Burst : 1.80 (J) 8 Round Internal gradient (burst) : 0.115 psi/ft : 0.000 Buttress : 1.60 (J) Annular gradient (burst) psi/ft (J) Other : 1.50 Tensile load is determined using air weight

	Length (feet)	Size (in.)	Weight (lb/ft)	Grad	e Joi	nt (Depth (feet)	Drift (in.)	Cost	
1 2 3 4	2,600 1,500 1,500 300	13.375 13.375 13.375 13.375	68.00 72.00 72.00 80.70	N-8 N-8 S-9 S-9	0 ST&0 5 ST&0	C	2,600 4,100 5,600 5,900	12.259 12.250 12.250 12.059		
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Loa (kip	Tension d Strgth s) (kips)	S.F.	
1 2 3 4	1418 2236 3055 3218	2144 2607 3459 4990	1.512 1.166 1.132 1.551	4802 4975 5147 5182	5020 5380 6390 7210	1.05 1.08 1.24 1.39	417. 240. 132. 24.	21 1040 21 1215	2.31 4.33 9.19 89.76	J J J J

Body Yield

: 1.50

(B)

MATTHEWS, Salt Lake City, Utah 07-29-1996 Prepared by

Date

Remarks

Minimum segment length for the 5,900 foot well is 1,500 feet.

SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas

temperature of 157°F (Surface 74°F , BHT 241°F & temp. gradient 1.400°/100 ft.)

String type: Intermediate - Drlg

Service rating is "Sweet"

Next string will set at 11,900 ft. with 9.50 ppg mud (pore pressure of 5,873 psi.) The frac gradient of 1.000 psi/ft at 9,500 feet results in an injection pressure of 9,500 psi Effective BHP (for burst) is 5,182 psi.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - collapse (with evacuated casing), 1.0 - (uniaxial) burst, 1.8 - API 8rd tension, 1.6 - buttress tension, 1.5 - body yield tension, and 1.6 - EUE 8rd tension. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1987 pricing model. (Version 1.07)

STATE OF UTAH, DIV OF OIL, GAS & MINERALS

Operator: ANSCHUTZ EXPLORATION C | Well Name: A L & L 4-30

Project ID: 43-043-30316 Location: SEC. 30 - T05N - R08E

<u>Design Parameters:</u> <u>Design Factors:</u>

: 1.125 Collapse : 0.494 psi/ft Mud weight (9.50 ppg) : 1.00 Shut in surface pressure : 5070 Burst psi : 1.80 (J) Internal gradient (burst) : 0.129 psi/ft 8 Round : 0.000 Buttress : 1.60 (J) Annular gradient (burst) psi/ft : 1.50 (J) Other Tensile load is determined using buoyed weight Body Yield : 1.50 (B) Service rating is "Sweet"

	Length (feet)	Size (in.)	Weight (lb/ft)		Joint		Depth Eeet)	Drift (in.)	Cost
1 2	8,000 3,900	9.625 9.625	47.00 47.00	L-80 HCL-80	LT&C LT&C		•	8.625 8.625	
	Load (psi)	Collapse Strgth (psi)		Load St	n Int Y rgth (psi)			Tension Strgth (kips)	S.F.
1 2	3948 5873	4535 7100	1.149 1.209	6102 6605		1.13	478.06 156.67		1.87 J 6.56 J

Prepared by : MATTHEWS, Salt Lake City, Utah

Date : 07-29-1996

Remarks
PHOSPHORIA/WEBER

Minimum segment length for the 11,900 foot well is 1,500 feet.

SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas $\,$

temperature of 157°F (Surface 74°F , BHT 269°F & temp. gradient 1.400°/100 ft.)

String type: Intermediate - Prod

NOTE:

The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - collapse (with evacuated casing), 1.0 - (uniaxial) burst, 1.8 - API 8rd tension, 1.6 - buttress tension, 1.5 - body yield tension, and 1.6 - EUE 8rd tension. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.

Costs for this design are based on a 1987 pricing model. (Version 1.07)

STATE OF UTAH, DIV OF OIL, GAS & MINERALS

Operator: ANSCHUTZ EXPLORATION C | Well Name: A L & L 4-30

Project ID: 43-043-30316 | Location: SEC. 30 - T05N - R08E

<u>Design Parameters:</u> <u>Design Factors:</u>

Collapse : 1.125 : 0.494 psi/ft Mud weight (9.50 ppg) : 1.00 Burst Shut in surface pressure : 5264 psi : 1.80 (J) 8 Round Internal gradient (burst) : 0.115 psi/ft (J) : 1.60 Annular gradient (burst) : 0.000 psi/ft Buttress Other : 1.50 (J) Tensile load is determined using air weight : 1.50 (B) Body Yield Service rating is "Sweet"

	Length (feet)	Size (in.)	Weight (lb/ft)		e Joi:		Depth feet)	Drift (in.)	Cost
1	2,209	7.000	32.00	L-80	0 LT&6	C 1:	3,909	6.000	
	Load (psi)	Collapse Strgth (psi)		Burst Load (psi)	Min Int Strgth (psi)		Load	Tension Strgth (kips)	S.F.
1	6864	8610	1.254	6864	9060	1.32	70.69	661	9.35 J

Prepared by : MATTHEWS, Salt Lake City, Utah

Date : 07-29-1996

Remarks

Minimum segment length for the 13,909 foot well is 1,500 feet.

SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas

temperature of 157°F (Surface 74°F , BHT 269°F & temp. gradient 1.400°/100 ft.)

The liner string design has a specified top of 11,700 feet.

The burst load shown is the pressure at the bottom of the segment.

String type: Liner - Production

The mud gradient and bottom hole pressures (for burst) are 0.494 psi/ft and

6,864 psi, respectively.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - collapse (with evacuated casing), 1.0 - (uniaxial) burst, 1.8 - API 8rd tension, 1.6 - buttress tension, 1.5 - body yield tension, and 1.6 - EUE 8rd tension. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility

for use of this design will be that of the purchaser. Costs for this design are based on a 1987 pricing model. (Version 1.07)

10/7/96

FRM: For your info.

CEMENTING OPERATIONS
10/5/96-10/6/96
ANSCHUTZ EXPLORATION.
AL & L EXPLORATION
30-5N-8E
43-043-30316

- 10/5/96- Called rig @ 7:30 am. Co. man said rigging up to run 20" csg-Supposed to take 4-5 hrs.
- 9:30 am-11:30amLeft SLC for rig. Casing on location had wrong threads for float collar. Csg was buttress thread and the float collar was fine. Co. Man called out welder @ 10:30 am. Welding on float collar, at time of arrival. Needed 1 hour to weld csg and 1 ½ hrs to cool before RIH.
- 11:45amLeft location to inspect the SST rig 56, drilling north of Coalville. Inspected rig and first inspection of the Blonquist 26-1H, completed this summer.
- 2:00pm-11:00pmReturned to location-had 2 joints of 20" ran. 34 joints remaining. Centralized csg every third joint-filled csg string every fifth joint. Finished running 20" csg. Rigged up packoff assembly, RIH 19 joints of casing for stinger. Tool joint landed on seal of packoff. POOH made up one more joint of csg. RIH. Dowell rigged up cement head. Pressured up packoff-(leaked). Rigged down top assembly-re-assembled, re-pressured-(leaked). Rigged down top assembly changed lock rings and rubber seals. Pressured up to 400#'s. Circulated hole for 45 minutes.
- 11:30pm-1:00am-Started cement job.
- 1:00am-1:45am-WOC for minutes. Cement stayed in place.
- 2:00am-4:00am-Left location-arrived home 4:00 am.

STATE OF UTAH D_ISION OF OIL, GAS AND MINI CEMENTING OPERATIONS

WELL NAME: AL & L 4-30 API NO: 43-043-30316								
QTR/QTR: NE/NW SECTION: 30 TOWNSHIP: 5N RANGE: 8E								
COMPANY NAME: ANSCHUTZ EXPL COMPANY MAN JERRY BLAIR								
INSPECTOR: <u>JLT</u> DATE: <u>11:30 AM-10/5/96 TO 2:00 AM-10/6/96</u>								
CASING INFORMATION: SURFACE CASING: X OTHER:								
SIZE: 20" GRADE: 106 # HOLE SIZE: 26" DEPTH: 1530'								
PIPE CENTRALIZED: YES: YES NO: CEMENTING CO. DOWELL								
CEMENTING STAGES: 1 STAGE TOOL 0:								
SLURRY INFORMATION:								
1. LEAD 1680 SX (536 BBLS)-35-65 POS-6% D-20 GEL-2% CAL. 1/4 D-29 LCM. 2. SLURRY: 850 SX (174 BBLS) CLASS "G" NEAT-2% S-1 1/4 D-20 LCM. 3. SLURRY: RAN 30 BBLS WATER AHEAD-20 BBLS TAIL.								
4. SLURRY:								
6. CEMENT TO SURFACE: YES:_X NO:LOST RETURNS:YES:NO:_X 7. 1 INCH INFORMATION: CLASS:ADDITIVES: CEMENT WEIGHT:_15.8 CEMENT TO SURFACE: LENGTH OF 1 INCH:FT.								
ADDITIONAL COMMENTS: 10/7/96-Rig called-Tested Hydril with rig pump to 1500#s. Drl ahead.								



DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: ANSCHUTZ EXPLORATION CORP.
Well Name: <u>AL & L 4-30</u>
Api No. 43-043-30316
Section 30 Township 5N Range 8E County SUMMIT
Drilling Contractor PARKER
Rig #: 235
SPUDDED:
Date: 10/2/96
Time: AM
How: ROTARY
Drilling will commence:
Reported by: <u>JERRY BLAIR</u>
Telephone #:
Date: 10/1/96 Signed: JLT



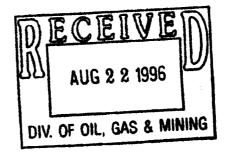
INTER-MOUNTAIN SAFETY CO., INC.

66 WALKER ROAD EVANSTON, WYOMING 82930 307/789-3882

August 21, 1996

Frank Matthews
Utah Division of Oil & Gas
Salt Lake City, UT.

Dear Mr. Matthews



I have enclosed a copy of the H2S contingency plan for the Anschutz Exploration Co AL&L # 4-30 well. Dave Dlouhy with Anschutz asked that I mail this copy to you.

Please let me know if you need any additional information or have any questions.

Sincerely,

Frank Kaunitz

WESTERN ENVMT

Western Environmental Services & Testing, Inc.

76 Imperial Drive, Suite I Evanston, Wyoming 82930

307-789-6420

Sample ID 4-30

WEST Lab # E9725711A

Customer:

UNION PACIFIC RESOURCES

Date sampled 01-27-97 Sample ID # 4-30 W.E.S.T. Lab # E9725711A Date analyzed 01-27-97

Sample pressure (PSIG) Temperature (DEG F)

180 110

Comments;

Sample heated to 124 ° F.

Sample source:

SEPARATOR

Other sample information:

SAMPLED @ 0700hrs

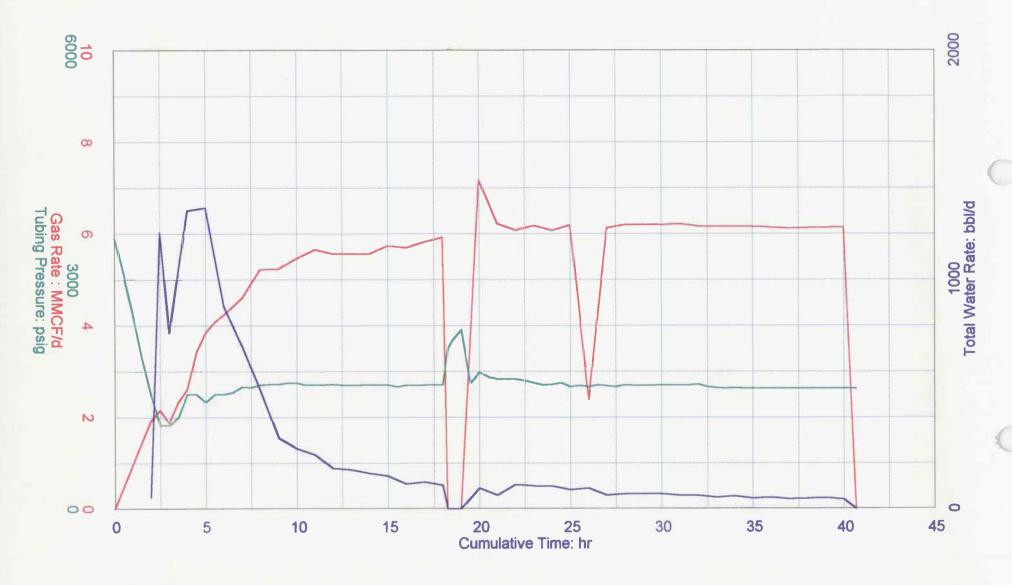
ANSCHUTZ LAND & LIVESTOC

#4-30

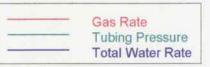
MOLE GAL per Calculated properties Gas: PERCENT 1000 Cu Ft at 60 Deg F. 14.730 PSIA HYDROGEN SULFIDE 17 039% IDEAL **CARBON DIOXIDE** 1 201% DRY BTU: 1030.38 NITROGEN 1.920% *COMPRESS .: 0.99635 **OXYGEN** 0.000% SPEC.GRAV. 0.75469 METHANE 71.349% C6+ MOL.WT. 94.199 ETHANE 5.234% 1,400 PROPANE 1 595% 0.440 DRY BTU 1034.15 ISOBUTANE 0.388% 0.127SAT BTU 1017.04 BUTANE 0.452% 0.143PER REAL OF ISOPENTANE 0.186% 0.068 PENTANE 0.143% 0.052 WOBBE **HEXANES** 0.297% 0.122 INDEX 1190 HEPTANES 0.139% 0.064 **OCTANES** 0.038% 0.019 *(Z FACTOR) NONANES 0.009% 0.005 **DECANES PLUS** 0.010% 0.006 Calculation methods based TOTAL 100.000% 2.446 C2+ on GPA reference bullatin 1.046 C3+ 181-86 & physical constants are from GPA 2145 **HEXANES PLUS** 0 493% 0 216 C6+

Anschutz 4-30





Clean Up Jan.25-27, 1997





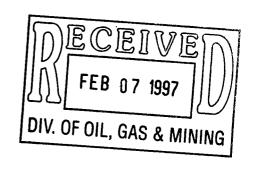
B.O.P. TEST PERFORMED ON (DA	TE) 11-12-96
OIL COMPENY MASCHUZ	
WELL NAME & NUMBER Cave	
SECTION 30	
TOWNSHIP 540	A STATE OF THE PARTY OF THE PAR
RANGE 8E	
COUNTY & STATE Summe	
DRILLING CONTRACTOR HANK	13) 335
DIE COMPANY SITE REPRESENTATIV	
RIG TOOL PUSHER	
	ney, Wy
NOTIFICD PRIOR TO TEST	TU: Utak Oil & Has
COMIES OF THIS TEST KENORI SEN.	
	Wak On m
	Jury Blair

CHICAGONNA COMMET & HEAT BEFORE OR FIRE ALS

DOUBLE JACK RESTURG & SERVICES, INC. PULL XUU U 4

Mineraliun, HY 85113

TESTED BY:



Double Jack Testing & Services Inc. FIELD TICKET Nº 012776 Accounting Office: P.O. Box 516 Shoshoni, WY 82649 • (307) 876-9390 **Field Operations:** Shoshoni, WY (307) 876-2308 DATE <u>//-</u> /2-Rock Springs, WY (307) 382-4020 **OPERATOR** Evanston, WY (307) 789-9213 Big Piney, WY (307) 276-5265 RIG NAME & NO. Vernal, UT (801) 781-0448 WELL NAME & NO. 4-70 COUNTY STATE TOWNSHIP SECTION RANGE Summit 36 55n RSE **Items Tested:** LOW TEST PSI TIME HELD HIGHTEST PSI TIME HELD **MINUTES MINUTES** Top Pipe Rams 5000 ن25 10 Closing Unit PSI 3000 250 **Bottom Pipe Rams** 5000 Closing Time of Rams <u>*5.00</u> **Blind Rams** 5000 Closing Time of Annular 75 20 Annular B.O.P. 2000 Closed Casing Head Valve Choke Manifold 10 Set Wear Sleeve ___ Choke Line 5000 10 **COMMENTS** Kill Line 250 5000 C Super Choke 250 5000 10 250 Upper Kelly Lower Kelly 10 Floor Valve 8 600 **Dart Valve** 5000 10 Casing ADDITIONAL TESTS & COMMENTS **TEST PLUG** RET. TOOL TOP SUB. KELLY SUB. X-OVER SUB. RATES ADDITIONAL **MILEAGE METHANOL OTHER**

PURACHASE ORDER

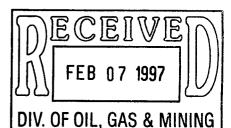
TESTED BY

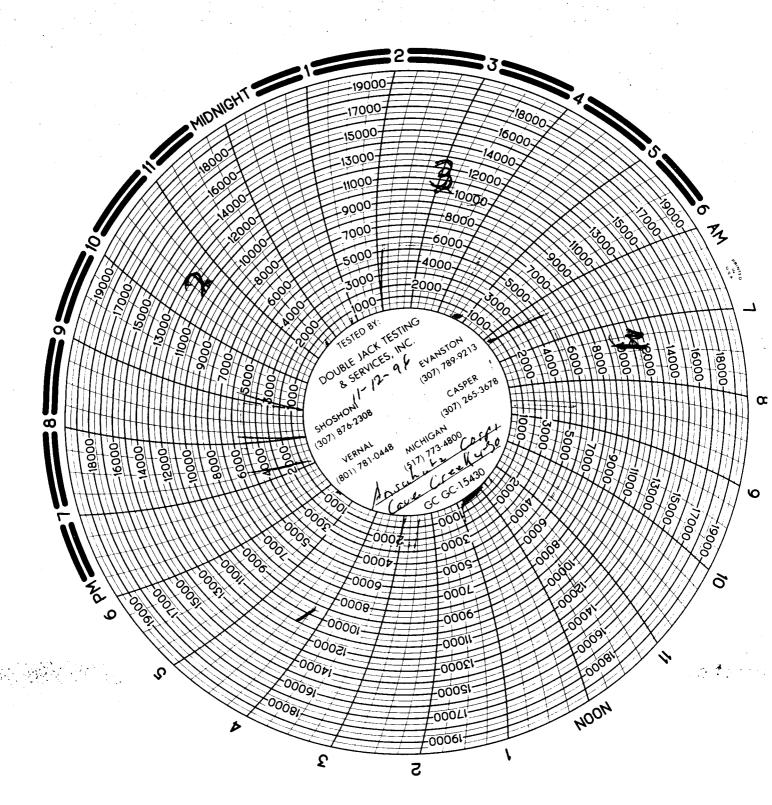
TESTED BY

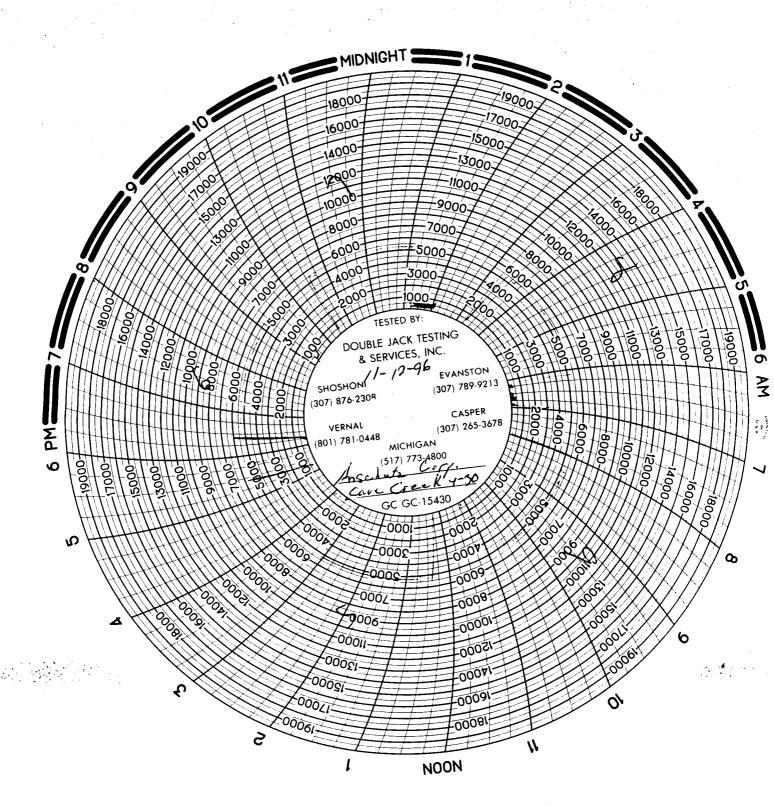
DOUBLE JACK TESTING UNIT NUMB

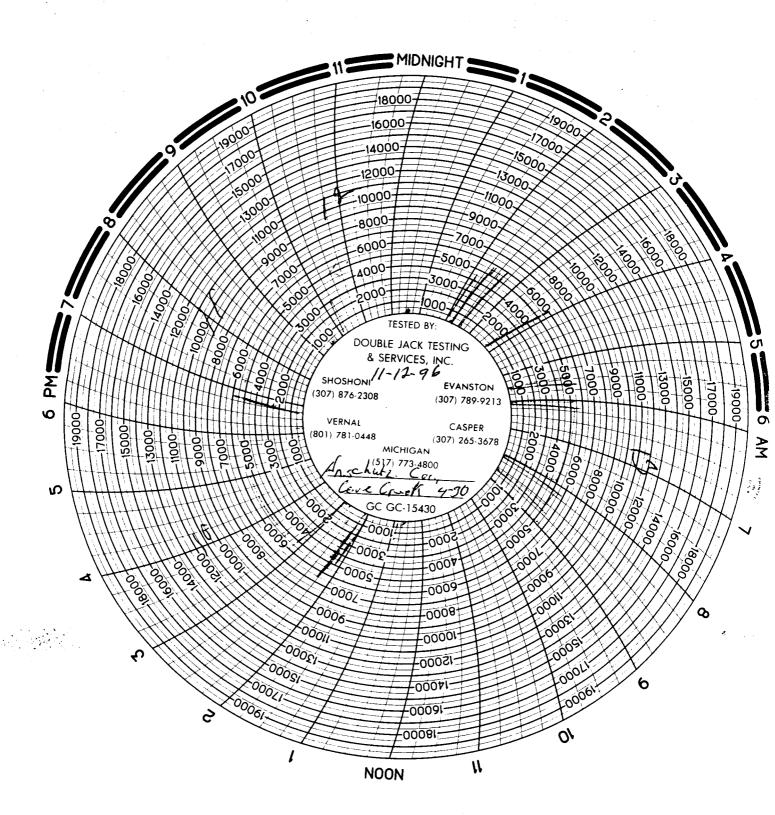
NOTICE TO ALL CUSTOMERS

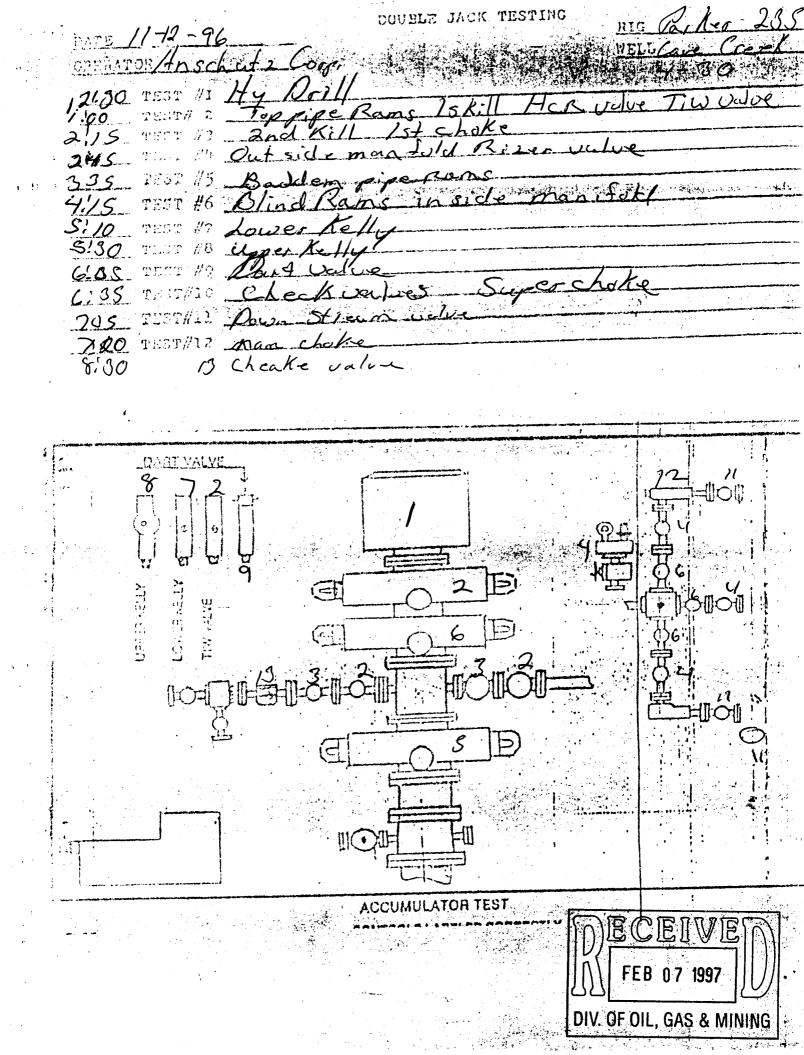
If this account shall not be paid when due and it is placed with an attorney for collection, or if suit be instituted for collection, the up of collection including attorney's fees and court cost in compliance with TRUTH IN LENDING AND THE UNIFORM CONSUMER terms of our regular accounts, all amounts for service due and payable within THIRTY (30) DAYS from the receipt of an invoice for substance are not paid when due. THE LATE CHARGE is computed by a "periodic rate" 1-3/4% PER MONTH which is an ANNUAL PERCE on the billing date. No further credit can be extended on unpaid delinquent accounts until the delinquent account is paid in full. The of God, or unforeseen circumstances that could not be reasonably anticipated in performing the work done as set forth above.











ACTION	CUMENT	NEN	API HUHDER	VICI V	HAHE			WILL	LOCATIO		SPUD	ELLECTIAL
CODE		ENTITY NO.	Wil HOUNTY	HELL	tinile	99	SC	TP	RG	COUNTY	DATE	DATE
Α	99999	12092	43-043-30316	AL & L No. 4	- 30	NE,NW	30	5 N	8E	Summit	10/2/96	
WELL I C	innitils:		ly added 7-1	9-97. I								
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WILL 2 C	rametals:	·	<u> </u>			· · · · · · · · · · · · · · · · · · ·						
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		<u> </u>	<u> </u>	<u></u>			<u> </u>	<u></u>	ــــــــــــــــــــــــــــــــــــــ	<u> </u>		_1
WELL 5 C	OBILLIA 5:											
										_	1	
VC11011 C	Ones (See)	nstructions	on back of form)				 		<u></u>	mus Carli	Al James	Oursland
A D	- Establish - Add new r	new entity relitor	or new wall (sin) ling entity (group	ogie well only) or unit well)						Signatura	ouncs	·
Ĉ	- Re-assign	well from well from	one existing entillione existing entil	ngie well only) o or unit well) Ly to another exist Ly to a new entity	ing entity		1		6	Engineeri	ng Mgr.	3/14/9
Ë	- Other (ex	plain in co	numents section)		$\pm i X$	A Company of the same			•	Title		Date

HOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Plione No. (713) 750-0210

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	//	A COLUMN TOWN	1.4.1	1	Ĭ	1537

		DIVIS	ton (STATE OF		ND MIN		101 1			CSIGHAT1	ION AND SERIAL NO.
		01113	20 (, 511,								
-	WELL CON	APLETION	OR	RECOM	PLETIC	ON RE	PORT	AND	LOG	N/A	#. ALLGT	THE OR TRIBE HAME
-	L TYPE OF WELL			WELL X			.ber			7. UNIT AG	RECHENT	E MAMB
	L TYPE OF COMP	LETION:			•					N/A	15.55	HAMP
	Serr (X)		<u>* </u>	PLOCE _	DIFF. REST	ه لاء	(per			ऱ		
	The Angel	nutz Corpo	ratio	าท						a. well n	ö	1.
	1 ADDALLE OF OFER	ATOR								# 4-	-30	L, OR WILDCLT
_	555 17th S	Street,#	2400	<u>Denve</u>	r CO	80202	State town					m de withert
										11	dcat	CE SLOCK APO SURVET
	At tap prod. into	33 FNL & 1	/UZ low ,	IML, J	EC. J				NIIF	TEN.		Sec. 30.
			;	Same	•		# F F F			134	-NOL)	Sec. 30.
	At total depth	Same			11. API	ю.		DATE	LESUED	12. COUNT	r	11. STATE
					43-0	43-303	316		9-96	Summi		Utah
;	10/2/06	16. DATE T.D. 4				Ready to or (Plug & A		4. ELET		ER, RT, GR, ETC.)	19.	ELET. CLEINGRELD
٠.	10/2/96	12/24/96	re suck	1/40 14 0x -0.1	77/	IF MULTI			23. INTERVA		00U3	CLALE TOOLS
	12,300'	12	,300	ı	ļ	NÄÄ 🔼				0-12	,300'	
	24. PRODUCING INTER	VAL(3), OF TELE	COMPL	TTOH—TOP.	SOTTOM.	HAME (ME	AND TYD))			22	FRANKL MTDE
	11,782' -	12,156'	Phos	ohoria								No
	AIT/LDT -	THE OFFICE LOCA	LGN	· CD 4/4	29-9	17				100 A 15-1-1-1		
	24.	CNL/DS/FM	<u> </u>				rt all atrin			NO (M 1214 HOWN 1		
	CASING SIZE	WEIGHT, LE.	/FT.	DEPTE SET			E SIZE			TING RECORD		AMOUNT PULLED
•	20"	106.5		1530		26'				<u>& 850 sk</u>		0
13	5/8" . 13 3/8			5860	00	17.1, 8.3/4			0 sks 11 0 sks C1	<u>% 1300 s</u>	KS_li_	1 0
	<u>7", 7 5/8"</u>	39.35.3		12.30		Λ 3/-	<u> </u>		11 282 1-1			
	29.		LINES	RECORD		<u> </u>			30.	TUBING RI		T
	BIZE N/A	10F (MB)	3077	(42) H	SACES C	EMENT	SCREEN (MD)	2 7/8	11,680'	(MO)	11,449
	N/A	 	 						2 1/6	11,000		11,445
	J1. PERFORATION RE	CORB (Interval, o	nec and	number)	<u> </u>		12.	AC	ID. SHOT. F	RACTURE, CEM		
	11,782'- 11	,872', .33	, 9	0 holes	;		DEFTE					MATERIAL CRED
	11,960'- 12						11,/8	32'-	11,872	808 Bbls	15%	6 HCL
	12,066'- 12	,100 , .33	, 9	0 110162	•							

	33. DATE FIRST PRODUC	TION PEO	KOLTOUG	METHOD (Flowing, o		UCTION	ec end	type of pump			us (Producing or
				•		7				S	hut I	[n
	DATE OF TEST	HOURS TESTE	•	MOET HILL		N. FOR PERIOD	70 4		GAS-HCF.	374		9115
	1/25/97	39	496	25/64	011	-104.	78.6	05 5—407.	8628	3/4		GRAVITI-AFI (CORE.)
	1575	550		4-EOUR BAT	12 1	3.40	1	310	_	264		
	34. DISPOSITION OF		or just,	rented, etc.)		<u></u>			TEST WI	CAELTRI	11
	35. LIST OF ATTACE	ETRINE			<u> </u>	(NEI	M	MIT	7/1		
,	Test Info		1	4 488445	n/a	VV	dese and s	UL.		Cross at available	Die recor	ds
	16. I hereog ceptus	Sustay	7	. Accaed 1	.u.orma(16	.u 18 COEL			Manage	•••		3/06/97
	מבאסונ		Jame	s uurs	iand _T	TTLE _	Lngine	ering	<u> manager</u>	<u> </u>	ATE _	3/00/3/

INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instruction for items 22 and 24 above).

and all dr	mportant zones 111-stem tests	, including d	and contents thereof; cored intervals; epth interval tested, cushion used, ressures, and recoveries.	38.	SEOLOGIC MARKE	RS
Formation	Тор	βottom 12,300'	Description, contents, etc. Gas Productive	Name		Top True Yert.Depth
Phosphoria	11,782'	12,300	das Froductive	Twin Creek Ls.	5784	5783
				Nugget Ss.	7342	7334
				Ankareh Red Beds	8416	8397
		· !		Thaynes Ls.	9486	9446
				Woodside Red Beds	10844	10814
				Dinwoody Fm.	· -11552	11517
				Phosphoria	11782	11745
			·			

FieldNotes



Job Number: ANSCH1.FLD Anschutz Land & Livestock

Wellname:

Well Location: 4-30

Formation:

Supervisors D. Garnier Customer Rep: D. Wickersham Start Date: 97/01/25 15:00 hrs Start Time: Test Unit: TU#12 Clean Up Operation:

Remarks:

Fluid measured through turbine meters

Gas properties based on January 27, 1997 gas samples.

FINAL Copies
Edited At Norward Head Office

CD



Job Number: ANSCH1.FLD
Customer: Anschutz Land & Livestock
Wellname:
Well Location: 4-30
Formation:

FieldNotes



Gas Meter 1		
Meter Type: Meter Type: Meter Run Size: Previous Gas Production: Tap Type: Tap Location:	Orifice 3.8600 0.000 Flange Downstream	in MMCF
Gauge to Absolute Adjustment:	11.0	
Gas Gravity: CO2: H2S: N2: Critical Temperature: Critical Pressure: Condensate:	0.75 1.20 17.04 1.92 423.4 780.6 No	% %

Water Meter 1

Meter Type:
Measurement Type:
Previous Water Production: Produced Volume Incremental 0.000 bbl

Condensate Meter 1

Meter Type: Produ Measurement Type: Previous Condensate Production: Produced Volume Incremental ction: 0.000 bbl



FieldNotes

Job Number: ANSCH1.FLD
Customer: Anschutz Land & Livestock
Wellname:
Well Location: 4-30
Formation:



w Date	Time	C Time	Pt	Pc	WHT	Orif	Static	Diff	Temp	Gas Rate	Cum Gas	H2O Gain	H2O Rate	Cum H2O	WGR	Cond Gain	Cond Rate		CGR	рН	Salinity C	sg13 3/8-5 7/8
yy/mm/dd	clock	hr	psig	psig	F	in	psig	in of H2O	F	MMCF/d	MMCF	bbl	bbl/d	bbl	bbl/mmcf	bbl	bbl/d	bbl	bbl/mmcf		ppm	psi
1 1997/01/2	15:00:00	0.0			0.0	0.000	0	0.0	0.0	0.000	0.000	0.000		0.000		0.000		0.000				
2	15:00:00 15:07:00	0.0		of fluid to reco to flow throu		noke										-						
4	15:20:00	0.3	3 Shut in we	ell to drop per	rf balls. 1800	Opsi on tubing.																
5	16:00:00 16:05:00	1.0			00 25/64 chok	e through test	equipment	- 1											<u></u>			
7	16:15:00	1.2	5 Burnable o	gas to surface	e	o unough took																
8	16:30:00 17:00:00	1.5	0 197 0 150		50 600 64.0	2.000	190	36.0	120.0	1.919	0.160	4.300	51.600	4.300	26.743	0.000	0.000	0.000	0.000			
10	17:30:00	2.0	0 110	00 7	00 106.0	2.750	160	12.0 12.0 18.0	120.0	2.149	0.202 0.244	25.100 16.000	1204.800 768.000	29.400 45.400	557.556 406.459	0.000	0.000	0.000		20		-
11 12	18:00:00 18:30:00	3.0	0 110	00 8	00 67.0 600 69.0	2.750 2.750	120 120	18.0	118.0 108.0	1.879 2.323	0.288 0.339									2.0		
13	19:00:00	4.0	0 150	9	050 66.0 00 70.0	2.750 2.750	130 170	21.0 28.0	106.0 104.0	2.610 3.432	0.339 0.402	54.200	1300.800	99.600	<u>495.745</u>	0.000	0.000	0.000	0.000	_		_
15	19:30:00 19:30:00	4.5	0 150 0 Trace of c		separator.	Too small to n																
16	20:00:00	5.0	0 140	00 10	50 74.0 00 74.0	2.750	170 190	35.0 35.0 36.0	104.0 102.0	3.837	0.478	54.700	1312.800	154.300	340,304	0.000	0.000	0,000	0.000	4.0		
17 18	20:30:00 21:00:00	5.5 6.0			50 74.0	2.750 2.750	200	36.0	102.0	4.058 4.220	0.560 0.647	36.800	883.200	191.100	208.158	0.100	2.400	0.100	0.566	5.0		
19	21:00:00 21:30:00	6.0		casing pressu	ure 10 72.0																	
20 21	22:00:00	7.0	0 160	00	71.0	2.750	205	41.0	96.0	4.586	0.830	29.600	710.400	220.700	154.059	0.250	6.000	0.350	1,301			
22	22:30:00	7.5	0 159	9D 25 1	0 62.0 50 65.0	2.750	255	43.0	101.0	5.208	1.034	21.600	518.400	242.300	99.002	0.700	16.800	1.050	3.208			
23 24 25 1997/01/2	23:30:00	8.5	0 163	30 1	50 64.0															E 0		
25 1997/01/2 26	00:00:00 00:30:00		0 16	50 1	75 66.0 80 67.0	2.750	160	68.0	100.0	5.217	1,251	12.900	309.600	255.200	59.020		45.600			5.0		
27 28	01:00:00	10.0	0 16	50 2	80 67.0 200 68.0	2.750	160	74.0	100.0	5,443	1.473	11.000	264.000	266,200	48.238	0.900	21.600	3.850	3.947	4.0		
28 29	01:30:00 02:00:00		0 162	25 2	200 68.0 250 70.0 250 72.0 255 73.0	2.750	165	77.0	100.0	5,635	1.704	9.900	237.600	276.100	41.932	1.900	45.600	5.750	8.048	4.0		
30	02:30:00	11.5	0 162	25 2	255 73.0 270 72.0	2.750	160	77.0	102.0	5.542	1.937	7.400	177.600	283.500	31.873	2,600	62.400	8.350	11.199	4.0	-	
31	03:00:00	12.5	0 16	20 2	73.0																	
31 32 33 34	04:00:00		0 16	20 3	300 72.0 300 72.0	2.750	160	77.0	102.0	5.542	2.168	7.100	170.400	290,600	30.581	2.600	62.400	10.950	11.199	5.0	-	
35	04;30:00 05:00:00	14.0	0 16	25 3	72.0	2.750	160	77.0	102.0	5.542	2,399	6.500	156.000	297.100	27.996	2.700	64.800	13.650	11.629	5.0		
35 36 37	05:30:00 06:00:00		0 16		300 <u>72.0</u> 300 <u>72.0</u>	2.750	165	80.0	105.0	5.717	2.633	6.000	144.000	303,100	25.053	2.600	62.400	16.250	10.856	5.0		
38	06:30:00	15.5	0 160	00 3	72.0																	
39 40	07:00:00 07:30:00	16.0	0 16:	20 3	350 <u>72.0</u> 350 72.0	2.750	160	81.0	104.0	5.673	2.871	4.500	108.000	307.600	18.933	2.900	69,600	19,150	12.201	5.0		
41	08:00:00	17.0	0 16	25 3	350 72.0 375 74.0	2.750	170	80.0	105.0	5.799	3.110	4.900	117.600	312.500	20,168	2.700	64.800	21.850	11.113	5.0		
42 43	08:30:00		0 16	25 3 25 1	90 74.0	2.750	170	83.0	106.0	5.902	3.353	4.300	103.200	316.800	17.392	2.400	57.600	24.250	9.707	5.0		
44	09:01:00	18.0	2 Shut in we	Attempt to		0.000	0	0.0	0.0	0.000	3.353	0.000	0.000	316.800		0.000	0.000	24.250				
45 46	09:15:00 09:30:00		25 210 60 220	00 3	380 340	0.000																
47 48	10:00:00	19.0			SOO	gh test equipm	0	0.0	0.0	0.000	3.353	0.000	0.000	316.800		0.000	0.000	24.250				
49	10:00:00	19.0	0 Blow dow	n 13 3/8 & 7	5/8 through	15/64 choke.	Opening pres	ssure = 970p	si							ı. ·						
50 51	10;30;00 11:00:00			50 <u>3</u>	350 380 74.0	2.750	205	97.0	85.0	7.140	3.651	3.800	91.200	320.600	12.703	3.300	79.200	27.550	11.032	5.0		900
52 53	11:30:00	20.5	0 17	25 4	125 7 <u>5.0</u>																	900 900 850
53 54	12:00:00 12:30:00			00 4	30 76.0 50 76.0	2.750	180	84.0	91.0	6.195	3.929	2.500	60.000	323,100	9.632	3,100	74.400	30.650	11.944	5.0		850
55	13:00:00	22.0	0 17	00 4	65 74.0	2.750	175	83.0	94.0	6.056	4.184	4.400	105.600	327.500	17.342	2.900	69.600	33.550	11.430	5.0		850
56 57	13:30:00 14:00:00				170 75.0 180 76.0	2.750	180	84.0	98.0	6.152	4.438	4.200	100.800	331.700	16.296	2.800	67.200	36.350	10.864	5.0		825
58	14:30:00	23.5	0 16	25 4	195 76.0																	700
59 60	15:00:00 15:30:00				510 76.0 550 76.0	2.750	175	84.0	102.0	6.045	4.692	4.100	98,400	335.800	16.191	2.900	69.600	39,250	11.452	5.0		450
61	16:00:00	25.0	00 16	00 5	76.0	2.750	180	85.0	102.0	6.164	4.947	3.500	84.000	339.300	13.553	2.600	62.400	41.850	10.068	5.0	127272.0	550 450 300 190
62 63	16:30:00 17:00:00		60 16 00 16		310 76.0 360 76.0	2.750	18	85.0	107.0	2.386	5.125	3.800	91.200	343,100	38.016	2.900	69.600	44.750	29.013	5.0		30



FieldNotes

Job Number: ANSCH1.FLD
Customer: Anschutz Land & Livestock
Wellname:
Well Location: 4-30
Formation:



ow Date	Time	C Time	Pt		Pc	WHT	Orif	Static	Diff	Temp	Gas Rate	Cum Gas	H2O Gain	H2O Rate	Cum H2O	WGR	Cond Gain	Cond Rate	Cum Cond	CGR	pH Sal	inity Csg13	3 3/8-5 7/8
yy/mm/dd	clock	hr	psig	-	psig	F	in	psig	in of H2O	F	MMCF/d	MMCF	bbi	bbl/d	bbl	bbl/mmcf	bbl	bbl/d	bbl	bbl/mmcf	Р	pm	psi
64 1997/01/26	17:30:00	26.50	16	525	680	76.0	2.750																
65	18:00:00	26.50 27.00 27.50	16	625 610	680 690	76.0 76.0	2.750 2.750	175	86.0	104.0	6.104	5.302	2.500	60.000	345.600	9.776	2.200	52,800	46.950	8.603	5.0		0.0
66 67	18:30:00 19:00:00	28.00	16	600 625	695 660	76.0 76.0	2.750	180	86.0	106.0	6.176	5.558	2.700	64.800	348.300	10.435	2.700	64.800	49.650	10.435	5.0		0.0
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69 70	19:30:00 20:00:00	29.00	16	615	660 615	76.0	2.750	180	86.0	106.0	6.176	5.815	2.700	64.800	351.000	10.435	2.600	62.400	52.250	10.049	6.0 127	272.0	100.0
71 72	20:30:00 21:00:00	29.00 29.50 30.00 30.50) 16	515 525	615 615	74.0 74.0		180	86.0	106.0	6.176	6.072	2.700	64.800	353.700	10.435	2.500	60.000	54.750	9.662	6.0		100.0
73	21:30:00	30.50	16	620	610	72 0			00.0			0.072											
74 75	21:30:00 21:30:00 22:00:00	30.50 31.00	Install su	rface ca 620	sing gauge 615	e. Open 73.0	2.750 2.750	= 10 psi. 180	86.0	103.0	6.194	6.330	2.400	57.600	356.100	9.249	2,000	48.000	56.750	7.707	6.0 128	484.0	100.0
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79 1997/01/27	00:00:00	33.00	1!	58 <u>5</u>	570	74.0 76.0	2.750	180	85.0	106.0	6.140	6.843	2.100	50.400	360.600	8.164	2.300	55,200	61.650	8.942	6.0 127	8/8.0	115.0
80 81	00:30:00 01:00:00	33.50 34.00	1	575 585 575	570 565 565 560 560	73.0	2.750	180	85.0	106.0	6.140	7.099	2.300	55.200	362.900	8.942	2.300	55.200	63.950	8.942	6.0 128	484.0	125.0
82	01:30:00	34,50 35,00) 1:	575 58 0	560 560	76.0 76.0	2.750	180	85.0	106.0	6.140	7.355	1.900	45.600	364.800	7.387	2.100	50.400	66.050	8.164	6.5 128	484.0	130.0
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90 91	05:00:00 05:30:00 06:00:00	38.00 38.50) 1:	57 5	555 550	74.0 73.0	2.750	180	85.0	111.0	6.110	8.119	1.900	45.600				62.400			6.5 128		135.0
92	06:00:00	38.50 39.00	1	57 5 57 5		74.0		180	85.0	111.0	6.110	8.373	2.000	48.000	372.600	7.813	2.600	62.400	76.150	10.157	6.5 128	484.0	135.0
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FORM 9	10
DIVISION OF OIL, GAS AND MININ	S. Canada Canagamacan and Serina National and
SUNDRY NOTICES AND REPORTS	ON WELLS
On not use this form for proposals to drill new wells, deepen existing wells, or to reach Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for st	or plugged and abandoned wells, sch proposals.
1. Type of West: OIL GAS TO OTHER:	8. Well Name and Number A.L. & L. #4-30
2 Name of Operator: The Anschutz Corporation	9. API Well Number: 43-043-30316
3. Address and Telephone Number 555 17th Street, #2400, Denver,	CO 80202 10. Floid and Poot, or Wild not Cave Greek
Location of Well - 533 ' FNL & 1702 ' FWL -	Summit :
CO. Sec. T.R.M.: NE, NW, Sec 30, J5N, R8E	Same : Utah
11. CHECK APPROPRIATE BOXES TO INDICATE N	LATURE OF NOTICE, REPORT, OR OTHER DATA
NOTICE OF INTENT (Submit to Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
	Abandon New Construction
. —	
Repair Casing Pull or Alter Casing	☐ Repair Casing ☐ Pull or Alter Causing
☐ Change of Plans ☐ Recomplete	☐ Change of Plans ☐ Perforate
☐ Convert to Injection ☐ Perforate	☐ Convert to Injection ☐ Vent or Flare
☐ Fracture Treet or Acidize ☐ Vent or Flare	☐ Fracture Treat or Acidize ☐ Water Shut-Off
☐ Multiple Completion ☐ Water Shut-Off	Other
	Date of work completion
Approximate date work will start 5-20-98	Report results of Multiple Completions and Recompletions to offerent reservoirs on WELL
	COMPLETION OR RECOMPLETION REPORT AND LOG IDEM.
	* Must be accompanied by a coment vertication report.
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all perdinent details, and of vertical depths for all manners and zones pertinent to this work.) (See a Ha toked)	DIV. OF OIL, GAS & MINING
Name & September James Ours APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINISTED DATE: 5-18-98	land The Eng. Mgr. 5/7/98
BY: 25-18-98 FM	ns on Reverse Side)

DIV. OF OIL, GAS & MINING



A. L. & L. NO. 4-30 CAVE CREEK PROSPECT, SUMMIT COUNTY, UTAH

OBJECTIVE

Plug and abandon.

WELL INFORMATION

Well Location:

NE, NW, Section 30, T5N, R8E

Well Status:

Shut In. Well SI 2/98 - loading up against line pressure.

Surface Casing:

20'', 106.5#, J55 set at 1530', cmt'd to surface w/ 2530 sks cement total 13~3/8'', 68#, L80 w/ 88# HCL80 thru salt (4403'-5860'), cmt'd to surface

w/ 3100 sks total

Production Casing:

Intermediate Casing:

7 5/8", 39#, L80 to 3280' and 7", 32#, L80 from 3280' to 12,300', Top of

cement (1/1/97 Schlumberger CET) 11,270'

Tubing String:

2 7/8", 7.7#, L80, Vam Ace

Downhole Equip .:

Baker Model D Packer set at 11,449', WL Re-entry Guide @ 11,680',Otis

"RN" nipple @ 11,675', R nipple(s) @ 11,637', 11,402' & 3078' Camco Methanol Injection Mandrel @ 3,021', Camco SCSSV @154'

Perforations:

11,782'-12,156' (Phophoria)

Drillers TD:

12,300'

PROCEDURE

- 1. Make proper notifications. Wasatche Gathering System (307)789-1573 and State of Utah, Division of Oil, Gas and Mining (801)538-5334 to be given 24 hour notice prior to commencing plugging activities. <u>Safety engineers to be on location during plugging operations</u>.
- 2. Remove production equipment and fence as needed. Install/test anchors.
- 3. RU slickline unit w/ sour service lubricator. Test lubricator to 5000 psi. RIH with pump through plug and set in RN nipple at 11,675'. Bleed off pressure to ensure plug is holding. RD and release slickline.
- 4. MIRU workover rig w/sub, flat tank, pump, catwalk, (2) sets of pipe racks. (Sub must be capable of standing over 17' BOP stack.) RU Norward 30' flare stack and 2 phase low pressure separator w/ sealed tank w/ ammonia scrubber. Set (2) 400 Bbl working tanks.
- 5. Load tubing with FW. Close SCSSV. Set BPV. ND wellhead. NU BOP's. BOP requirements and test procedure (per Bobby Cooper 4/29/98 Urroz WIU #1 Procedure): 7 1/16" 5m# CIW Type U BOP consisting of single gate w/ 2 7/8" pipe rams on top, (2) 2" 5M gate valves and (1) 2" 5M check valve on kill side and (2) 2" 5M# gate valves (1 man & 1 (HCR) on choke side. 7 1/16" Schafer Spherical. BOP to have been tested to 300 psi for 5 min and 5,000 psi for 10 min w/ test flange prior to NU, utilizing a 2 7/8" test mandrel. After NU BOP re-test top rams and shell test BOP system against lift sub. Test annular to 300 psi for 5 min and 3500 psi for 10 min.

- Pull seal assembly from Model D packer. POH keeping hole loaded. LD tubing string. Send in tubing string and accessories for inspection. Tubing string to be cleaned and inspected as soon as possible.
- 7. RU wireline service w/ sour service line and lubricator. Test lubricator. RIH with gauge ring and junk basket to 11,400'. POH. RIH with cement retainer and set at 11,400'. POH. Load and test casing to 1500 psi. RD WL service.
- 8. PU cement retainer stinger and 2 7/8", 6.5# L80 workstring and sting into cement retainer. Test annulus to 1500 psi. Establish injection rate down tubing and squeeze Phosphoria perforations (11,782' -12,156') with 185 ft3 Class G cement. Sting out of retainer and spot 21 ft3 (100') Class G cement on top of retainer.
- 9. PU and reverse out. Circulate hole with abandonment fluid (8.7# w/ salt 1 ppb zinc chelate and 1.5% Champion R2383 corrosion inhibitor/O₂ scavenger /biocide. POH.
- 10. RU wireline. MU casing spear, spear 7 5/8" casing and put casing in tension for freepoint. RIH with freepoint and determine the production casing freepoint. POH with freepoint tool. Report results.

IF DECISION IS MADE TO PULL FREE CASING PROCEED TO STEP 11, IF NOT PROCEED TO STEP A

- 11. PU CIBP and RIH on workstring. Set at 8630'. PU and spot 41 ft3 cement on CIBP. POH.
- 12. RIH with jet cutter and cut casing at 100% free pipe depth. (Note: 9 PPG mud on backside of production casing when it was run.) POH with cutter. Circulate P&A fluid. Pull free casing.
- 13. RIH with workstring, spot balanced cement plugs across the following:

7" casing stub	200' plug	100 ft3 cement (min)
13 3/8" shoe	200' plug	134 ft3 cement (min)
3380' to 3180'	200' plug	168 ft3 cement (min)
300' to 100'	200' plug	168 ft3 cement (min)

- 14. ND BOP. NU blind flange on tubing head with 1/2" needle valve. RDMO workover rig.
- 15. Dig out cellar. Cut off all casing strings. RIH with 60' of 1" tubing. Cement casing and all annuli with 50' surface plug. Send wellhead equipment in to FMC for inspection.
- 16. Erect 4"x10' dry hole marker w/ at least 6' of marker above GL. Marker should have a 1/2" needle valve tapped into it so that it can be checked for pressure. Post the following information on marker:

THE ANSCHUTZ CORPORATION
AL&L No. 4-30
NE, NW, Sec. 30, T5N, R8E, Summit County, Utah.
Date Plugged

17. Clean and reclaim location.

- A. (Note: Dependent on where the freepoint is located, one or more of the CIBP's listed in "Step B" may have to be set prior to performing "Step A".) RU wireline. RIH with 3 1/8" casing gun and perforate 2', 4 spf, at the 100% free pipe depth. POH with gun. PU cement retainer. RIH with retainer and set 100' above sqz perfs. PU cement retainer stinger and workstring and sting into retainer. Test annulus to 1500 psi. Establish injection rate down tubing and squeeze perforations with sufficient cement to achieve 200' plug plus 20% excess on outside of pipe. Sting out of retainer and spot 100' cement on top of retainer. PU and reverse out. POH with workstring.
- B. Set CIBP's and spot cement as follows:

CIBP at 8630'	200′ cap	41 ft3 cement (min)
CIBP at 5860'	200′ cap	40 ft3 cement (min)
CIBP at 3270'	200' cap	48 ft3 cement (min)
300' to 100'	200' plug	59 ft3 cement (min)

GO TO STEP 14 (ABOVE)

Tanghan A Control of the Control of

5 Pud Date: 10/2/96

K.B.

7337'

G.L. 7314.4 Summit County, Utah BLUGGING DIAGRAM IE CASING IS PULLED 50' Cmt Surface Plug BZ' 30" Conductor 82' ~ 1co'~ SURFACE CHSING Proposed 200' Balanced 20", 106.5#, 155 Cut Plug (100'-300') (circ out to surface) (2001) (1,8407 A3/A) → 168.1 A3 INTERMEDIATE CASING 0-4403', 133/8", 68#, 180 4403'- 5860', 135/6', 88#, HC180 + Proposed Zoo' Balanced Cout Plug -3180'-(Circ out to surface) 31801 - 33801 K~ #! (2001) (0.8407 A3/4) => 168./43 33801-Proposed 200' Balanced Cout Plug Across 133/2" Csq Shoe (100')(.8407 A3/4) + (100')(167 A)(1.2) => 134.14 Proposed 200' Balanced cont Plug Across 7' Casing Stub 5760 (0.4176 ft3/f+ (200))(1.2) => 100.22 ft5 5960! PRODUCTION CHSING Proposed CIBP @ 8630' capped w/ 200' cunt (0.2026 A3/4) (8630-8430') > 40.5 A3 0-3280'-, 75/8", 39#, 180 Z∞1 # 3280'- 7277', 7", 35#, 480 7277'- 12,322', 7", 32#, 180 Proposed Cmt Ret @ 11,400' Cut Below Retainer (84" hole) (12,156'-11,400')(.2026 AS/4)(1.2) > 183.8 ft3 Cut Above Retainer TOC 14,270 (100')(.2026 f13/4) => 20.3 f3 (1/1/37 CET) 1 🔀 Baker Mod D Production PKr Set @ 11,449' PERFORATIONS 11,782 - 11,872 WL Re-Entry Guide @ 11,600' 11,960' - 12,050' 12,066' - 12,156'

DTD 12,300'

A.L. &L. No.

Cove Creek Field

Spud Date: 10/2/96

K.B. 7337'

G.L. 7314.4'

[PLUGGING DIAG

BZ' 30" Conductor BZ' 4

SURFACE CHSING

888

22-141 22-142 22-144 A.L. &L. No. 4-30 Cove Creek Field Summit County, Utah

PLUGGING DIAGRAM IF CASING IS NOT PULLED

50' Cmt Surface Plug BZ' 30" conductor -100'~ SURFACE CASING 20", 106.5#, 155 (circ out to surface) INTERMEDIATE CASING 0-4403', 133/8", 68#, 180 4403'- 5860', 135/6", 88#, Halbo + 32701 (Circ out to surface) 5860 PRODUCTION CHSING 0-3280', 7578", 39#, 480 3280'- 7277', 7", 35#, 180 7277'- 12,322', 7", 32#, L80 TOC 11,270 (1/197CET) 1 PERFORATIONS 11,782 - 11,872 11,960' - 12,050' 12,066' - 12,156'

DTD 12,300'

Proposed 200' Balanced Cunt Plug (100'-300') (200')(2954 43/4) => 58.7 ft3

Proposed CIBP @ 3270', capped

w/ 200' cement

(,2394 ft3/ft)(3270'-3070') ⇒ 47.9 ft3

* Proposed cut retainer 100' above

sqz perts snot @ freepoint (100' cut
above # below ant ret. Inside # out)

Proposed CIBP's @ 8630' # 5860'

Capped w/ 200' cement

(0.1966 ft3)(5860'-5660') ⇒ 39.3 ft5

(0.2026 ft3)(8630'-8430')=7 40.5 ft5

Proposed Cmt Ret @ 11,400'

Cmt Below Retainer

(12,156'-11,400')(.2026⁴⁵/4)(1.2)

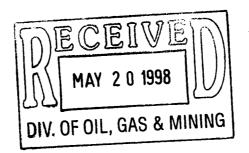
⇒ 183.8 ft3

Cmt Above Retainer

(100')(.2026 ft3/4) ⇒ 20.3 ft3

Baker Mod D Production Per Set @ 11,449' WL Re-Entry Guide @ 11,680'

> JP0 5/98



Revision #2



A. L. & L. NO. 4-30 CAVE CREEK PROSPECT, SUMMIT COUNTY, UTAH

OBJECTIVE

Plug and abandon.

WELL INFORMATION

Well Location:

NE, NW, Section 30, T5N, R8E

Well Status:

Shut In. Well SI 2/98 - loading up against line pressure.

Surface Casing:

20", 106.5#, J55 set at 1530', cmt'd to surface w/ 2530 sks cement total 13 3/8", 68#, L80 w/ 88# HCL80 thru salt (4403'-5860'), cmt'd to surface

w/ 3100 sks total

Production Casing:

Intermediate Casing:

7 5/8", 39#, L80 to 3280' and 7", 32#, L80 from 3280' to 12,300', Top of

cement (1/1/97 Schlumberger CET) 11,270'

Tubing String:

2 7/8", 7.7#, L80, Vam Ace

Downhole Equip.:

Baker Model D Packer set at 11,449', WL Re-entry Guide @ 11,680',Otis

"RN" nipple @ 11,675', R nipple(s) @ 11,637', 11,402' & 3078' Camco Methanol Injection Mandrel @ 3,021', Camco SCSSV @154'

Perforations:

11,782'-12,156' (Phophoria)

Drillers TD:

12,300'

PROCEDURE

- 1. Make proper notifications. Wasatche Gathering System (307)789-1573 and State of Utah, Division of Oil, Gas and Mining (801)538-5334 to be given 24 hour notice prior to commencing plugging activities. <u>Safety engineers to be on location during plugging operations</u>.
- 2. Remove production equipment and fence as needed. Install/test anchors.
- 3. RU slickline unit w/ sour service lubricator. Test lubricator to 5000 psi. RIH with pump through plug and set in RN nipple at 11,675'. Bleed off pressure to ensure plug is holding. RD and release slickline.
- 4. MIRU workover rig w/sub, flat tank, pump, catwalk, (2) sets of pipe racks. (Sub must be capable of standing over 17' BOP stack.) RU Norward 30' flare stack and 2 phase low pressure separator w/ sealed tank w/ ammonia scrubber. Set (2) 400 Bbl working tanks.
- 5. Load tubing with FW. Close SCSSV. Set BPV. ND wellhead. NU BOP's. BOP requirements and test procedure (per Bobby Cooper 4/29/98 Urroz WIU #1 Procedure): 7 1/16" 5m# C/W Type U BOP consisting of single gate w/ 2 7/8" pipe rams on top, (2) 2" 5M gate valves and (1) 2" 5M check valve on kill side and (2) 2" 5M# gate valves (1 man & 1 (HCR) on choke side. 7 1/16" Schafer Spherical. BOP to have been tested to 300 psi for 5 min and 5,000 psi for 10 min w/ test flange prior to NU, utilizing a 2 7/8" test mandrel. After NU BOP re-test top rams and shell test BOP system against lift sub. Test annular to 300 psi for 5 min and 3500 psi for 10 min.

- 6. Pull seal assembly from Model D packer. POH keeping hole loaded. LD tubing string. Send in tubing string and accessories for inspection. Tubing string to be cleaned and inspected as soon as possible.
- 7. RU wireline service w/ sour service line and lubricator. Test lubricator. RIH with gauge ring and junk basket to 11,400'. POH. RIH with cement retainer and set at 11,400'. POH. Load and test casing to 1500 psi. RD WL service.
- 8. PU cement retainer stinger and 2 7/8", 6.5# L80 workstring and sting into cement retainer. Test annulus to 1500 psi. Establish injection rate down tubing and squeeze Phosphoria perforations (11,782' -12,156') with 185 ft3 Class G cement. Sting out of retainer and spot 21 ft3 (100') Class G cement on top of retainer.
- 9. PU and reverse out. Circulate hole with abandonment fluid (8.7# w/ salt 1 ppb zinc chelate and 1.5% Champion R2383 corrosion inhibitor/O₂ scavenger /biocide. POH.
- 10. PU CIBP and RIH on workstring. Set at 8630'. PU and spot 41 ft3 cement on CIBP. POH.
- 11. RU wireline. RIH with 3 1/8" casing gun and perforate 2', 4 spf,from 5958'- 5960'. POH with gun. PU cement retainer. RIH with retainer and set 100' above sqz perfs. PU cement retainer stinger and workstring and sting into retainer. Test annulus to 1500 psi. Establish injection rate down tubing with returns to the surface via 7' x 13 3/8" annulus. RU cementers and pump 153 ft3 (min) cement below retainer. Sting out of retainer and spot 100', 20 ft3 (min) cement on top of retainer. PU and reverse out. POH with workstring.
- 12. Set CIBP's and spot cement as follows:

CIBP at 3270' 200' cap 48 ft3 cement (min) 300' to 100' 200' plug 59 ft3 cement (min)

- 13. ND BOP. NU blind flange on tubing head with 1/2" needle valve. RDMO workover rig.
- 14. Dig out cellar. Cut off all casing strings. RIH with 60' of 1" tubing. Cement casing and all annuli with 50' surface plug. Send wellhead equipment in to FMC for inspection.
- 15. Erect 4"x10' dry hole marker w/ at least 6' of marker above GL. Marker should have a 1/2" needle valve tapped into it so that it can be checked for pressure. Post the following information on marker:

THE ANSCHUTZ CORPORATION
AL&L No. 4-30
NE, NW, Sec. 30, T5N, R8E, Summit County, Utah.
Date Plugged

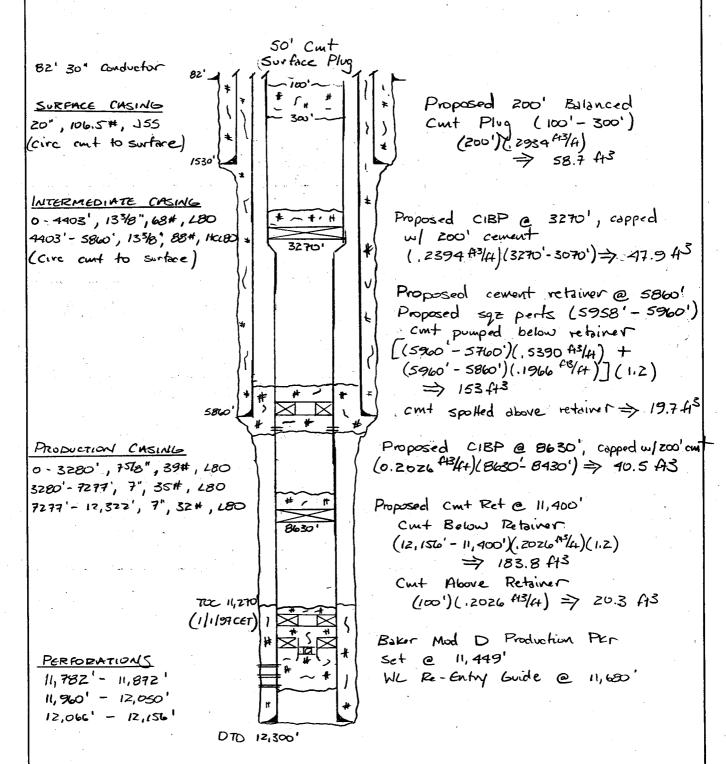
16. Clean and reclaim location.

Spud Date: 10/2/96 K.B. 7337' G.L. 7314.4'

A.L. &L. No 4-30 Cove Creek Field Summit County, Utah

22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS







1221 LAMAR

SUITE 1100

HOUSTON, TEXAS 77010

713-651-0281

FAX 713-750-0257

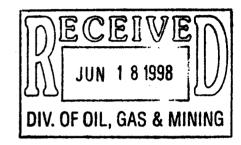
June 17, 1998

State of Utah, Division of Oil, Gas & Mining 1594 West North Temple, Suite 1210 Salt Lake City, Utah 84114

Attn.: Mr. Bob Krueger

Reference: A.L. & L. 4-30, Cave Creek Field

Summit County, Utah



Dear Mr. Krueger:

Enclosed is a Sundry Notice reporting the P&A operations which have taken place to date on the referenced well. Also reported, is The Anschutz Corporation's proposed procedure for setting surface plugs in this well to conclude P&A operations.

Please review this information and let me know if the proposed procedure is satisfactory.

If you have questions or need additional information I can be reached in our Houston Office at the letterhead telephone number.

Sincerely,

The Anschutz Corporation

James Oursland

Gulf Coast Engineering Mgr.

JPO:cavecrk\utah.doc Enclosure

_ TE OF UTAH

DIVISION OF OIL, GAS AND MINING	5. Lease Designation and Sm, n Number:
SUNDRY NOTICES AND REPORTS ON V	VELLS
•	7. Unit Acroement Name:
Do not use this form for proposals to drill new wells, deepen stating wells, or to reanest plugger Use APPLICATION FOR PERMIT TO DRILL, OR DEEPEN form for such propo	t and abandoned wells. salts.
1, Type of Well: OIL GAS M OTHER:	8. Woll Name and Number A. L. & L. #4-30
2. Name of Operator:	9. API Wolf Number:
The Anschutz Corporation	43-043-30316
3. Address and Telephone Number;	10. Field and Pool, or Wildrai
555 17th Street, #2400, Denver, CO 80202	Cave Creek
Location of Well Footogen: 533' FNL & 1702' FWL	County: Summit
CO. Sec. T.R.M.: NE, NW, Sec 30, T5N, R8E	Utah you se
11. CHECK APPROPRIATE BOXES TO INDICATE NATUL	RE OF NOTICE, REPORT, OR OTHER DATA
NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
☐ Abendon ☐ New Construction ☐ XX A	bandon New Construction
	lepair Casing Pull or After Casing
☐ Change of Plans ☐ Recomplete 💢 🤇	thange of Plans Perforate
☐ Convert to Injection ☐ Perforate ☐ ☐	Convert to Injection
☐ Fracture Treat or Acidize ☐ Vent or Flare ☐ F	racture Treat or Acidize
☐ Multiple Completion ☐ Water Shut-Off ☐ ☐	Other
Other	6/4/00
	of work completion 6/4/98
Approximate date work will start	port results of Multiple Completions and Recompletions to different resorders on WELL MAPLETION OR RECOMPLETION REPORT AND LOG form.
• : 460	act be accompanied by a cament verification report.
 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give portioertical depths for all markers and zones pertinent to this work.) 	vent dates. If well is directionally diffied, give subsurface locations are measured and true
	GECETVEIN
	[COL
	DIV. OF OIL, GAS & MINING
	<u> </u>
Name & Squarey / James Oursland	These Engineering Manager : 6/16/98
Name & Spreading	The

A.L. L. 4-30 Cave Creek Field Plugging Summary

Date	Description	Type of Cement	# of sacks	Yield (ft3/sk)	Cmt Volume (ft3)	Comments
20-May	Set pump-thru plug in RN nipple @ 11,674'					
25-May	Called State of Utah re: BOP test			i.		
28-May	Set EZSV Retainer @11,400'				:	
29-May	Sqz'd cmt below EZSV Spotted cmt on top of EZSV	CI G CI G	166 18	1.15 1.15	190.90 20.70	100' cmt on top of EZSV
30-May	CIBP set early at 3304'					RIH to set CIBP at 8630', CIBP set on the way in the hole. Wellsite consultant notified State of Utah, Jimmie Thompson and Dan Jarvis.
31 -M ay	Performed sqz down 13 3/8" by 7 5/8" annulus	CIG	300	1.15	345.00	Pump rate 300 psi @ 4 BPM
2-Jun	Performed sqz down 13 3/8" by 7 5/8" annulus	CIG	300	1.15	345.00	Pump rate 800 psi @ 1 BPM
2-Jun	Spotted cmt on top of CIBP set @ 3304'	CIG	41	1.15	47.15	200' cement on top of CIBP
2-Jun	Set balanced plug in 7 5/8" casing	CIG	41	1.15	47.15	Balanced cmt plug 26' to 226'
2-Jun	Sqz down 13 3/8" by 7 5/8" annulus w/ add'l 150 sks	CIG	150	1	150.00	Pump rate 1000 psi @ 1 BPM
4-Jun	Pressured up on 13 3/8" by 7 5/8" annulus					Pumped 53 Bbls water into annulus before catching pressure. Pressured up to 1050psi after 61 Bbls, pressured up 1100 psi at 61.8 Bbls. Pressure bled from 1100 psi to 535 psi in 30 minutes.

Over No.

Spud Date 10/2/96 KB 7337' GL 7314.4'

A.L. & L. 4-30 Cave Creek Field Summit County, Utah

BZ' 30" Conductor Spotted 200' (Alsks) Class G 6/2 SURFACE CHSING 20", 106.5# , J55 Balanced Plug 18 1 (circ out surface) 1530' PKV Fivid 6/2 Capped CIBP @ 3309 W/ 200' (41 sks) C1 6' INTERMEDIATE CHING 0-4403', 13³/3", 68#, L80 4403'-5860', 13³/2", 88# # / # 1 # 5/30/98 7" CIBP set @ 33041 (circ out to surface) 133/8" x 75/8/7" Anniks 5/31/98 squeezed w/ 300 sks C1 6 (1.15 ASK) 133/8" x 770"/7" Annelys 6/2/98 PRODUCTION CHSING 0-3280', 758", 39#, 180 squeezed w/ 300 sks C1'6' (1.15 43/sk) 3280'-7277', 7", 35#, 180 ZIMC , Broricle and followed up u/ add 150 sks (16 7277'- 12,322', 7", 32#, 180 5860' Bit brine, 186 2 Coreld K, covr luhib) Baker Mod D Prod PKr 5/28/98 Set Halio EZSV @ 11,400' set @ 11,449' 5/29/98 Purped 166 sks (191 ft3) WL Re-entry Guide 11.680' C1 '6' below retriver, 18 sks (20.7 H3) above retainer TOC 11,270' PERFORATIONS (1/1/27 CET) 11,782' - 11,872' 5/20 Set pump-thw plug in 11,960' - 12,050' RN 12,066 - 12,156 nipple at 11.6741

12,300 DTD



A. L. & L. NO. 4-30 CAVE CREEK PROSPECT, SUMMIT COUNTY, UTAH

OBJECTIVE

Set surface cement plugs and abandon.

WELL INFORMATION

Well Location:

NE, NW, Section 30, T5N, R8E

Well Status:

Shut In. Well SI 2/98 - loading up against line pressure.

Surface Casing:

20", 106.5#, J55 set at 1530', cmt'd to surface w/ 2530 sks cement total

Intermediate Casing:

13 3/8", 68#, L80 w/ 88# HCL80 thru salt (4403'-5860'), cmt'd to surface

w/ 3100 sks total

Production Casing:

7 5/8", 39#, L80 to 3280' and 7", 32#, L80 from 3280' to 12,300', Top of

cement (1/1/97 Schlumberger CET) 11,270'

Tubing String:

2 7/8", 7.7#, L80, Vam Ace

Downhole Equip.:

Baker Model D Packer set at 11,449', WL Re-entry Guide @ 11,680',Otis

"RN" nipple @ 11,675', R nipple(s) @ 11,637', 11,402' & 3078' Camco Methanol Injection Mandrel @ 3,021', Camco SCSSV @154'

Perforations:

11,782'-12,156' (Phophoria)

Drillers TD:

12,300'

PROCEDURE

(Note: See attached plugging summary and well sketch for details of work performed to date.)

1. Dig out cellar. Cut off all casing strings. Send wellhead equipment in to FMC for inspection.

2. RU DS. RIH (7 5/8" by 13 3/8") annulus with 1" tubing to cement top or 500'. Circulate bottoms up. Circulate annulus full of cement (262 ft3 @ 500'). POH with 1" tubing. Run 1" tubing in 7 5/8" casing and cement casing with 50' surface plug (+/- 15 ft3).

tubing in 7 5/8" casing and cement casing with 50' surface plug (+/- 15 ft3).

From the nation of central control of the surface plug (+/- 15 ft3).

Frect 4"x10' dry hole marker w/ at least 6' of marker above GL. Marker should have a 1/2" needle valve tapped into it so that it can be checked for pressure. Post the following information on marker:

THE ANSCHUTZ CORPORATION

AL&L No. 4-30

NE, NW, Sec. 30, T5N, R8E, Summit County, Utah.

Date Plugged

4. Clean and reclaim location.

Updated 6/17/98

JPO:cavecrk\al430p&a3.doc

		_			
,	DIVISION IL, GAS AND MINI	ING	5. Lease Designation and Serial Number:		
			6. If Indian, Allottee or Tribe Name:		
SUNDR	ON WELLS				
Do not use this form for pr Use AF	7. Unit Agreement Name:				
		8. Well Name and Number:			
. Type of Well: OIL GAS	ned	A.L. & L. #4-30 (Cave C			
. Name of Operator:			9, API Well Number:		
THE ANSCHUTZ CORP		43-043-30316			
Address and Telephone Number:		10. Field and Pool, or Wildoxt			
555 17th St., Ste	. 2400, Denver, CO 80202	(303) 298-1000	Cave Creek		
Location of Well 533 FNL Footages:	and 1702' FWL		County: Summit		
OQ Sec.,T.,R.M.: NENW Sec	tion 30, T5N, R8E		sum: Utah		
1. CHECK APP	ROPRIATE BOXES TO INDICATE I	NATURE OF NOTICE, REPO	ORT, OR OTHER DATA		
	TICE OF INTENT submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)			
] Abandon	☐ New Construction	☐ Abandon *	☐ New Construction		
Repair Casing	Pull or Alter Casing	☐ Repair Casing	Pull or Alter Casing		
Change of Plans	☐ Recomplete	Change of Plans	☐ Reperforate		
Convert to Injection	Reperforate	☐ Convert to Injection	☐ Vent or Flare		
Fracture Treat or Acidize	☐ Vent or Flare	Fracture Treat or Acidize	☐ Water Shut-Off		
Multiple Completion	☐ Water Shut-Off	Other LOCATION REC	CLAMATION		
Other			·		
		Date of work completion 9	/25/98		
pproximate date work will sta	irt	Report results of Multiple Completions and Recompletions to different reservoirs on WELL			
		COMPLETION OR RECOMPLETION REPORT AND LOG form.			
•		* Must be accompanied by a cement veri	fication report.		
DESCRIBE PROPOSED OR COMPLE	TED OPERATIONS (Clearly state all pertinent details, and	give pertinent dates. If well is directionally drill	ed, give subsurface locations and measured and true		
vertical depths for all markers and zor					
			•		
·	:				
Fvan	orated reserve pit. Remainder of muc	d mixed in with trackhoe			
Evap with	porated reserve pit. Remainder of muc at least 4' of soil placed on top. See	d mixed in with trackhoe eded location w/200 lbs.			
with Seed	at least 4' of soil placed on top. See I. Seed mixture per Castle Rock Lan	eded location w/200 lbs. d & Livestock. Building	:		
with Seed (brow	at least 4' of soil placed on top. See J. Seed mixture per Castle Rock Lan wn) and antenna left on location per a	eded location w/200 lbs. d & Livestock. Building agreement with UPR and			
with Seed (brow	at least 4' of soil placed on top. See	eded location w/200 lbs. d & Livestock. Building agreement with UPR and			
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with Seed (brow	at least 4' of soil placed on top. See J. Seed mixture per Castle Rock Lan wn) and antenna left on location per a	eded location w/200 lbs. d & Livestock. Building agreement with UPR and			
with Seed (brown) land	at least 4' of soil placed on top. Seed. Seed mixture per Castle Rock Lanwn) and antenna left on location per a owner, Dave Allen. Total reclamation	eded location w/200 lbs. d & Livestock. Building agreement with UPR and n days = 10.	ng Manager pate: 3/9/99		

DIV OF OU GAS & MINI



555 SEVENTEENTH STREET

SUITE 2400

DENVER, COLORADO 80202

303-298-1000

FAX 303-298-8881

March 9, 1999

State of Utah
Dept. of Natural Resources
Division of Oil, Gas and Mining
1594 W. North Temple, Suite 1210
Salt Lake City, UT 84114-5801
Attn: Mr. Bob Krueger

RE:

A.L. & L. #4-30 (Cave Creek)

Summit County, Utah API No. 43-043-30316

Sundry Notice (Form 4) – Subsequent Report Location Reclamation

Dear Mr. Krueger:

Enclosed is the referenced notice. Please accept our apologies for the delay in submitting the report to your office.

Feel free to contact me at (303) 299-1344 with any questions and thank you for your cooperation in this matter.

ANSCHUTZ EXPLORATION CORPORATION

Susan M. Balano

Operations Technician

SMB

Enclosures

TE OF UTAH

DIVISION OF OIL, GAS AND MINIT	NG CONTRACTOR
	5. Lease Conignation and Sur, a Number:
SUNDRY NOTICES AND REPORTS	ON WELLS
SUNDAY NOTICES AND REPORTS	<u> </u>
On not use this form for proposals to drill new wells, deepen satisfing wells, or to recent use APPUCATION FOR PERMIT TO CRUL OR DEEPEN form for a	er plugged and abandoned wells. NA NA
1. Type of Well: OIL GAS X OTHER:	8. Weil Name and Number AL&L 4-30
2, Name of Operator.	9. API Well Number;
Anschutz Exploration Corporation	43-043-30316 .
555 17th Street, Suite 2400 Denver, CO 80241	(303)298-1000 10. Field and Poot, or Wild at Wildcat
4 Location of Well	Cummi+
Former: 533' FNL & 1802' FWL	Course: Summit
CASCALLANIE Ne Nw Sec 30, T 5 N, R 8 E	Swell Utah John Action
	VATURE OF NOTICE, REPORT, OR OTHER DATA
NOTICE OF INTENT (School in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
☐ Abendon ☐ New Construction	Abandon New Construction
☐ Repair Casing ☐ Pull or Alter Casing	☐ Repair Casing ☐ Pull or After Cauring
Change of Plans Recomplete	☐ Change of Plans ☐ Perforate
Convert to Injection Perforate	☐ Convert to Injection ☐ Vent or Flare
☐ Fracture Treat or Acidize ☐ Vent or Flare	☐ Fracture Treat of Acidize ☐ Water Shut-Off
☐ Multiple Completion ☐ Water Shut-Off ☐ Other	Other
	Date of work completion
Approximate date work will start	Report recuts of Multiple Completions and Recompletions to different recovery on WELL
	COMPLETION OR RECOMPLETION REPORT AND LOG term. * Must be accompanied by a cement verification report.
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all perdoent details, and vertical depths for all markers and zones pertinent to this work)	give portinent dates. If well is directionally dated, give subsurface locations are encoursed and sue
Attached is a composite report and well sketch above referenced well.	detailing the plugging operations for the
	RECEIVED
	MAR 8 3 2000
	DIVISION OF
1	OIL, GAS AND MINING
12 James Surcus	
Name & Square	Gulf Coast Eng. Mgr. : 3/2/00
This space for State use only)	
	Accepted by the

Date: 3-/3-00 Initiate: CHD Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

12,300 DTD

22-141 22-142 22-144

JPO 6/98 A.L. & L. #4-30 (Cave Creek) Operator: AEC Summit County, Utah

- 05/20/98Plugging day 1. 12,300' TD (0'). PO: Plug well. SITP 2975 psi, SICP (20") 700 psi, SICP (7-7/8") 2000 psi + 2M# gauge pegged out. Remove tree blankets and SI well. Bled off tree cap, ND tree cap and NU lube flange. RU Halco slick line. Test lube to 5M# w/Double Jack Testing. Run 2.180" gauge ring to 12'. Pump 15 gals methanol. Continue RIH to "RN" nipple @ 11,674'. POOH, PU 2.188" XRRN and pump through plug. RIH to 177' (appears to be pushing something downhole). Pump 80 gals methanol. POOH and PU 2-7/8" 6.5# scratcher. Hand jar to 1450' and RIH to 2000'. POOH, PU plug and RIH to 2900'. Started dragging again, moving 2' to 10' per minute to 3150'. POOH, PU scratcher, test lube and RIH to "RN" @ 11,674'. POOH, PU plug, test lube. RIH and set plug in "RN" @ 11,674'. POOH, blow down tbg to WGS. Portable flare to 100 psi. SDFN. SITP 150 psi, SICP (20") 700 psi, SICP (7-7/8") 1850 psi. Note: appears there is a leak around the 20" @ surface.
- 05/21/98Plugging day 2. 12,300' TD (0'). PO: Plug well. Plug leaking. Flow tbg to WGS portable flare while NU flange. RU HB&R and Denny's Water Service. Pump 100 bbls freshwater down tbg. ND flange and set FMC BPV. Well on suction w/freshwater. Prep area around cellar for rig. Raised elevation approx. 14" in spots to clear cement around cellar ring. MI Keye Rockies rig no. 370. Could not spot rig due to heavy rain.
- 05/22/98Plugging day 3. PO: Plug well. 12,300' TD (0'). Toolpusher and rig crew finish RU. Ready to start ND. Reports suspended until 05/26/98.
- 05/26/98Plugging day 4. PO: Plug well. 12,300' TD (0'). SITP 2200 psi, SICP (20") 700 psi, SICP (13-3/8") 1920 psi. Contacted State of Utah (Jimmy Thompson) to BOP test could not attend. HU pump & lines, ND tree cap and NU comp flange. Pump 80 bbls of reserve pit water. ND tree and MU TIW and secure well. Remove valves, cut & cap SS lines to SCSSV and methanol injection mandrel. Remove TIW, MU test plug w/TIW. NU BOP & choke manifold. Test upper pipes, floor valves, and choke manifold to 5000# high and 300# low. Test annular to 3500# high and 300# low. Sent tree into WGS yard for shipment to SDFN.
- 05/27/98 Plugging day 5. PO: Plug well. SITP 100 psi, SICP (20") 700 psi, SICP (13-3/8") 1920 psi. HU pump & lines and pump 60 bbls water down tbg. Remove BPV and cut & cap ¼" SS lines. Open SCSSV and leave 6M# on line. RU line spooler and pull SSV breaking all connections. LD SSV and pull to methanol injection mandrel. LD mandrel and continue LD tbg (194 jts total). SDFN. Note: SSV & methanol mandrel delivered to WGS dock for shipment.
- 05/28/98Plugging day 6. SITP 0 psi, SICP (20") 700 psi, SICP (13-3/8") 2000+ psi. 7-5/8" Casing on vacuum. Finish LD tbg and load out. Send tbg and accs to Tuboscope for cleaning/inspection. RU OWP and PU 5.83" gauge ring & junk basket. RIH to 11,400', POOH and recovered 1 Otis plastic strap and 1 test plug "O" ring. PU Halco 7" EZSV CICR, RIH and set @ 11,400'. Start loading hole while POOH, 207 bbls (FL @ 5200'). RD OWP, test casing and CICR to 2M# 10 minutes OK. Flow 13-3/8" annulus to flare stack. Start @ 2000+ psi, and after 6 hours decreased to 1400 psi. SDFN.
- 05/29/98Plugging day 7. SITP 0 psi, SICP (20") 700 psi, SICP (13-3/8") 1440 psi. PU EZSV stinger & tbg to 11,408'. Sting into EZSV CICR. RU Dowell and pump 10 bbls water + 166 sks class "G" cement. Yield 1.15 wt, 15.8 ppg, 34 bbls slurry/ Displace w/61 bbls reserve pit water. Sting out and leave 18 sks on top of retainer. LD 4 jts tbg and reverse out 70 bbls. Pump 95 bbls pkr fluid and displace w/48 bbls reserve pit water. RD Dowell and LD 5 jts tbg. SDFN.

A.L. & L. #4-30 (Cave Creek) Operator: AEC Summit County, Utah

- 05/30/98 Plugging day 8. SITP 0 psi, SICP (20") 700 psi, SICP (13-3/8") 95 psi. LD 90 jts tbg. POOH and LD EZSV stinger. PU, RIH w/7" Halco CIBP and set @ 8630' (previously set @ 3304'). In fluid all the way, plug set. State of Utah contacted and informed of status.
- 05/31/98Plugging day 9. SITP 0 psi, SICP (20") 700 psi, SICP (13-3/8") 60 psi. RU Dowell and pump 353 bbls water down 13-3/8" annulus. SD @ 250 bbls and monitor pressure. In 5 minutes pressure dropped from 250# to 20# @ 3.5 bpm. Finish pumping remainder of water @ 4 bpm. Establish injection @ 4 bpm @ 300#. Mix & pump 300 sks Class "G" cement w/2% CaCl @ 4 bpm. Pressure went from 20# to 300#. Displace w/40 bbls water @ 4 bpm. SD and SI w/140# on hard line. SDFN. Estimated TOC @ 430'.
- 06/01/98Plugging day 10. SICP (7-5/8") 0 psi, SICP (20") 500 psi, SICP (13-3/8") slight blow. RU Dowell and 145 bbls into 13-3/8" and 7-5/8" annulus to catch pressure (153 bbls to 1200#). Pressure dropped to 200# in 1 minute. Pump 5 bbls to 1100#. Dropped to 6# in 15 minutes. Pump 27 bbls @ 2 bpm to 800#. Pumped into formation @ 1 bpm @ 800#. Release Dowell. LD 222 jts tbg and leave 52 jts in hole. SDFN.
- 06/02/98Plugging day 11. SITP 0 psi, SICP (20") 600 psi, SICP (13-3/8") slight blow. RU Dowell and pump 300 sks Class "G" cement w/2% Cacl. Displace w/4 bbls water. XO and pump plug #2 in 7-5/8" @ 3304'. Pump 4 bbls water and 41 sks Class "G" cement w/2% CaCl. Displace w/17 bbls water. PIP @ 0800 hrs and LD 3 jts tbg. Roll hole w/packer fluid, 130 bbls. LD 84 jts tbg to 226'. Mix and pump 41 sks Class "G" cement w/2% CaCl. Displace w/½ bbl water and LD 7 jts tbg. PIP @ 1100 hrs. XO to 13-3/8" 7-5/8" annulus and fill w/100 bbls packer fluid. Pressure up to 800 psi @ 112 bbls. SD and dropped to 200 psi in 1 minute. Pump back up to 1020 psi. SD and dropped to 100 psi in 1 minute and holding. Pressure up to 1000 psi @ 124 bbls. Pump into plug @ 1000 psi @ 1 bpm. Mix & pump 10 bbls 5.5% CaCl water and tail in w/150 sks Class "G" cement w/2% Cacl. Wash up on top of plug 8 bbls. SD and start RD service unit. SDFN.

Plugs set as follows:

Plug #1 @ 11,400'

Plug #2 @ 3304'

Plug #3 @ 226'

- 06/03/98Plugging day 12. SITP 0 psi, SICP (20") 0 psi, SICP (13-3/8") vacuum. ND 7-1/16" tbg head. RD MO Key Rockies rig no. 370. Note: tbg head and two 2-9/16" 5M# valves shipped to FMC in OKC 06/03/98. Future operations: pressure check 13-3/8" 7-5/8" annulus 06/04/98 or 06/05/98. FINAL REPORT.
- 06/04/98Plugging day 13. SITP 0 psi, SICP (20") 0 psi, SICP (13-3/8") vacuum. RU Dowell and Denny's Water Service. Pump 53 bbls of water in 13-3/8" 7-5/8" annulus. Pressure to 1050# @ 61 bbls. SD to observe well. Lost 200 psi. Bled off air. Pressure up to 1100 psi @ 61.8 bbls. Monitor pressures as follows: 800 psi in 10 minutes, 700 psi in 15 minutes, 635 psi in 20 minutes, 575 psi in 25 minutes, 535 psi in 30 minutes. SI well @ 535 psi. RD Dowell and SD.
- 06/24/98 Plugging day 14. RU DS and Denny's Water Service. Mix & pump 20 sks Class "G" cement + 3% CaCl mixed @ 15.8 ppg. Yield 4.04 bbls slurry. Annular vol = 43'. Pump @ .25 bpm to 4M# and displace w/3.4 bbl water. Sl w/3600 psi on csg. Annulus is 13-3/8"/7-5/8". RU on 20" 13-3/8" annulus. Mix & pump 31

A.L. & L. #4-30 (Cave Creek)

Operator: AEC

Summit County, Utah

sks Class "G" w/3% CaCl. Pump @ 16.0+ ppg. Yield 1.15 6 bbls slurry, annular vol = 35'. Pump @ .25 bpm to 1800 psi. SD and shut in w/1700 psi on csg. RD Dowell Schlumberger and Denny's Water Service. Denny's Water Service pulled wash up fluid out of hole and put in reserve pit.

- 07/16/98Plugging day 15. Bled pressures from 20" 13-3/8" annulus and from 13-3/8" 7-5/8" annulus. Valves OB both cemented up. Remove bull plugs from each to bleed. RU welder and cut off 30" conductor. Cut windows in 20" and had cement solid behind 20". Clean cement between windows. Cut windows in 13-3/8", had gas in annulus, no cement. Cut off 7-5/8". Finish cutting off wellhead. Haul to Elkhorn Yard and will send to FMC in Rock Springs for repairs. Ran 100' tape down 7-5/8", cement @ 26". Conduct same procedure between 13-3/8" and 7-5/8" for 100'. No cement, encountered water @ 30'. Propose finish top out w/Redi-Mix with pea gravel.
- 07/21/98Plugging day 16. PO: P&A well. Fill 7-5/8" and 13-3/8" annulus with 6 cubic yards of 5 bag chip grout. Fill 7.5/8" to top. Fill 13-3/8" 10' from top of casing to the grout mix. Fill to the top w/cement. Will install dryhole marker ASAP. FINAL PLUGGING REPORT.
- 09/15/98Reclamation day 1. C. W. Wilson Construction, Inc. commenced reclaim.

09/16/98

to

09/25/98Reclamation day 2. Lego evaporated reserve pit w/evaporate system. Remainder of mud mixed in with trackhoe with at least 4' of soil placed on top. Seeded location w/200 lbs. Seed. Seed mixture per Castle Rock Land & Livestock. Building (brown) and antenna left on location per agreement with UPR and landowner, Dave Allen. Total reclamation days = 10. RECLAMATION REPORT.

STATE OF UTAH

DEPARTMENT DIVISION OF	5. LEASE DESIGNATION AND SERIAL NUMBER: 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: 8. WELL NAME and NUMBER: AL&L 4-30 9. API NUMBER: 4304330316			
SUNDRY NOTICES				
Do not use this form for proposals to drill new wells, significantly drill horizontal laterals. Use APPLICA				
1. TYPE OF WELL OIL WELL GAS V				
2. NAME OF OPERATOR: Anschutz Exploration Corporation				
3. ADDRESS OF OPERATOR: 555 17th St, Ste 2400 CITY Denver	STATE CO ZIP 80		PHONE NUMBER: (303) 298-1000	10. FIELD AND POOL, OR WILDCAT: Cave Creek, Phosphoria
4. LOCATION OF WELL FOOTAGES AT SURFACE: 533' FNL & 1702 FV QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NE				COUNTY: SUMMIT STATE: UTAH
11. CHECK APPROPRIATE B	OXES TO INDICATE	NATURE C	F NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION		TY	PE OF ACTION	
NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: CHANGE TO		DEEPEN FRACTURE TI NEW CONSTR	RUCTION	REPERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL TEMPORARILY ABANDON TUBING REPAIR
Date of work completion:	ELL NAME ELL STATUS E PRODUCING FORMATIONS	RECLAMATIO	SANDON I (START/RESUME) IN OF WELL SITE E - DIFFERENT FORMATION	WATER DISPOSAL WATER SHUT-OFF ✓ OTHER: LOG RECORDS
12. DESCRIBE PROPOSED OR COMPLETED OPER This is to advise the State that the Neu 9,760' to 12,890' (TD). Prior records inc	tron Density Log run in	n the Ansch	utz Exploration Co	poration AL&L 4-30 was run from
	-			
NAME (PLEASE PRINT) Ardith Barbosa		TITLE	Operations Tech	nician
SIGNATURE MAITH BUILDA		DATE	6/17/2009	

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